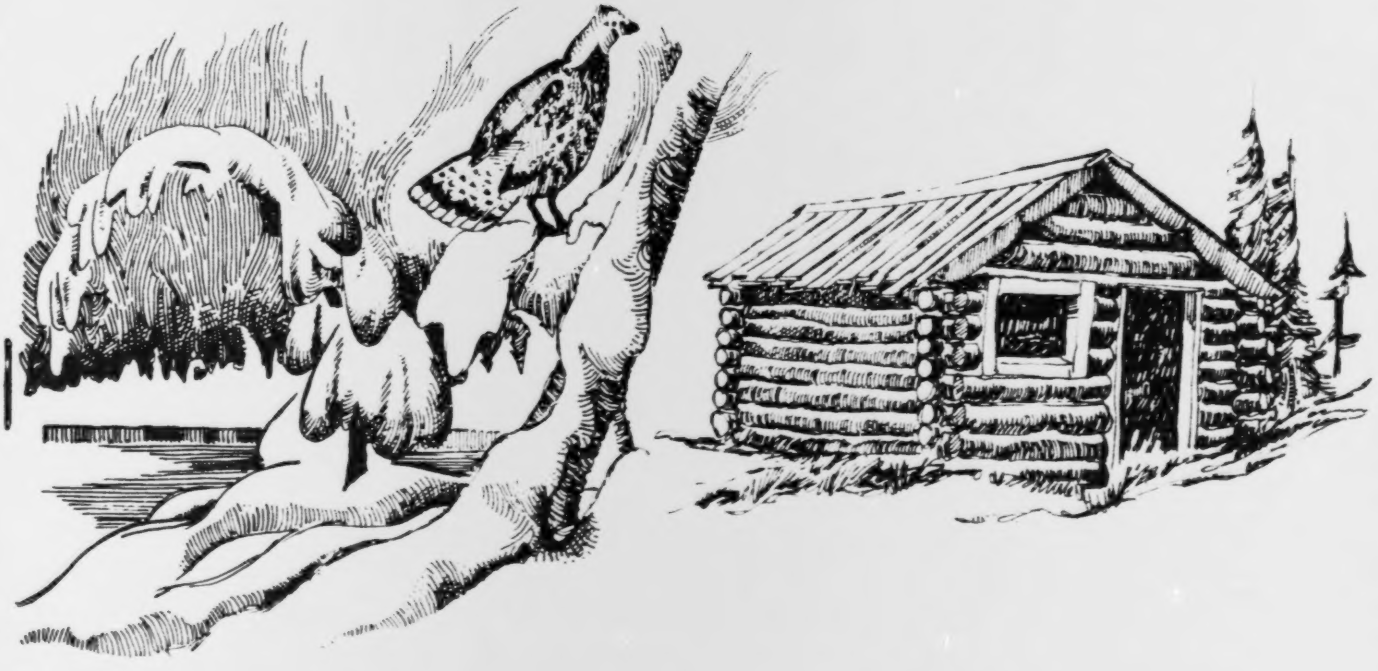
OUTDOOR EDUCATION



RESOURCE CATALOGUE

1983

DEPARTMENT OF EDUCATION
PROVINCE OF MANITOBA

FOREWORD

The material in this catalogue has been compiled to serve as a ready reference for teachers to assist them in locating outdoor education materials that are available from government departments and private organizations.

It is impossible to list all resources dealing with outdoor education. Interested persons are asked to contact the appropriate agency for assistance.

Special thanks to all individuals and agencies making contributions to this resource catalogue.

ACKNOWLEDGEMENT

Pictures for the cover were obtained from the Mistik Creek Canoe Map originally prepared by the Parks Branch of the Manitoba Department of Tourism, Recreation and Cultural Affairs.

Curriculum Development and Implementation
(Physical Education)
Department of Education
411 - 1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Ph. 944-6877

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I. SERVICES

A. AGENCIES AND ORGANIZATIONS

The following organizations, and others listed in the catalogue, should be contacted and utilized, where possible, as resources for outdoor education programs. They may be able to provide speakers, assist with programs or serve as consultants. Contact the agencies or organizations listed to become more aware of their specific services.

This is only a sampling of the many organizations that are available. The following is by no means a complete listing.

Agency	Phone No.
City of Winnipeg Parks and Recreation Department	885-1500
Crafts Guild of Manitoba Inc.	943-6281
Manitoba Camping Association	786-5641
Manitoba Department of Fitness, Recreation and Sport (Recreation Services)	944-3766
Manitoba Environmental Council	944-7086
Manitoba Historical Society	947-0559
Manitoba Milk Producers' Marketing Board	786-6063
Manitoba Museum of Man and Nature (Education)	943-3204
Manitoba Naturalists Society	943-9029
Manitoba Outdoor Education Association (MTS)	888-7961
Manitoba Parks and Recreation Association	786-5641
Manitoba Physical Education Teachers' Association (MTS)	888-7961
Manitoba Wildlife Federation	633-5967
Red Cross Society	772-2551
Seven Sisters Falls Wildlife Association Inc.	348-2890
Wildlife Foundation of Manitoba (Ft. Whyte Nature Centre)	895-7001
Y.M.C.A. (Camping Branch)	942-8157

B. CAMPS

The following is a list of some important items to check in considering a facility for an outdoor education program.

Administration

- Does the camp use a contract, or at least put the details and basis of agreement on paper?
- What are the costs involved? How much does the cost change with length of period, different activities, number of participants, services requested, etc.?
- Does the facility have all the necessary permits and licences? (e.g., fire permits)

Program

- To what types of activities does the facility best lend itself?
- Are there limitations on activities which may be done because of camp philosophy, policies, local conditions, etc.?

Personnel and Leadership

- Does the facility provide program resource staff? If so, how many and with what skills?
- Does the facility provide food service and maintenance staff?
- Will there be a readily identified person from the facility to act as liaison between facility staff members and teachers during the session?

Camp Site, Facilities and Equipment

- How many people can the facility accommodate comfortably?
- What equipment does the facility offer?
- What natural resources does the facility offer for program?
- What are the sleeping arrangements? Is there sufficient space per person, with adequate ventilation, heat, etc.?
- Who is responsible for bedding, towels, etc.?

Health

- What first aid or medical supplies are available?
- Is there provision for the isolation of a sick participant?
- Does the facility provide a nurse, or is that the responsibility of the school?
- How far away are doctor and hospital?
- Does the facility provide complete food and maintenance service? Ask about the adequacy of the menu.

Sanitation

- Does the facility have a licence to operate from the Department of Health?
- Check washrooms for adequacy.
- Check on dishwashing and handling procedure.

Safety

- If on a lake or pool, check to see whose responsibility it is to provide necessary lifeguards.
- Will the facility have a vehicle available for emergencies?

Transportation

- Whose responsibility is transportation for off-site excursions? If it is the facility's responsibility, check adequacy of vehicle(s) and whether or not drivers have proper licences, etc.

(Prepared for a session on "Camping Standards and How They Relate to Outdoor Education" at the Man in Nature Conference, Brandon, May 10-12, 1973, by Mac McCorquodale, Riding Mountain Conference Centre and Camp Wannakumbac)

Campsites Available for Outdoor Education

The following sites are available for use by school groups during the school year. For months open, staff and equipment available, see the following chart.

Please contact the camp concerned for further information.

1. Camp Name - B'nai B'rith Camp
City Address 370 Hargrave Street
Winnipeg, Manitoba
R3B 2K1

Ph. 947-0601

Camp Address Kenora, Ontario

Contact Person Hart Sera

2. Camp Name - Caddy Lake - Girl Guides of Canada
City Address 200 - 267 Edmonton Street
Winnipeg, Manitoba
R3C 1S2

Ph. 942-2458

Camp Address c/o Whiteshell P.O., Manitoba, R0E 2H0

Contact Person Karen Caithness

3. Camp Name - Camp Arnes
City Address 1151 Henderson Highway
Winnipeg, Manitoba
R2G 1L5

Ph. 338-4647

Camp Address Box 40, Arnes, Manitoba, R0C 0C0

Contact Person Lily Loewen

4. Camp Name - Camp Assiniboia
City Address 202 - 1483 Pembina Highway
Winnipeg, Manitoba
R3T 2C9

Ph. 475-3550

Camp Address R.R. 1, Headingley, Manitoba, R0H 0J0

Contact Person Peter and Agnes Nickel

5. Camp Name - Camp Brereton
City Address 706 Harstone Road
Winnipeg, Manitoba
R3R 1E2

Ph. 837-1277

Camp Address Brereton Lake, c/o Rennie Post Office, Rennie, Manitoba, R0E 1R0

Contact Person Mrs. S. Parkinson

6. Camp Name - Camp Koinonia
City Address
Box 312
Boissevain, Manitoba
R0K 0E0

Ph. 534-2504

Camp Address Box 312, Boissevain, Manitoba, R0K 0E0

Contact Person Jake Neufeld

7. Camp Name - Camp Manitou (Y.M.C.A.)
City Address
301 Vaughan Street
Winnipeg, Manitoba
R3B 2N7

Ph. 942-8157

Camp Address 301 Vaughan Street, Winnipeg, Manitoba, R3B 2N7

Contact Person Dave McGregor

8. Camp Name - Camp Moose Lake
City Address
Box 38
Sprague, Manitoba
R0A 1Z0

Ph. 475-3550

Camp Address Box 38, Sprague, Manitoba, R0A 1Z0 (Ph. 437-2091)

Contact Person Peter Dyck

9. Camp Name - Camp Stephens
City Address
301 Vaughan Street
Winnipeg, Manitoba
R3B 2N7

Ph. 942-8157

Camp Address Fish Market Dock, Kenora, Ontario

Contact Person Grant Platts

10. Camp Name - Camp Wannakumbac
(Riding Mountain Conference Centre)
City Address
437 Assiniboine Avenue
Winnipeg, Manitoba
R3C 0Y5

Ph. 943-2500

Camp Address Box 125, Onanole, Clear Lake, Manitoba, R0J 1N0

Contact Person Bob Douglas

11. Camp Name - Camp Wasaga
City Address
251 Wildwood Park
Winnipeg, Manitoba
R3T 0E4

Ph. 475-7196

Camp Address Onanole, Manitoba, R0J 1N0

Contact Person Mrs. Sally Shwetz

12. Camp Name - Lakeside Camp
(Society for Crippled Children and Adults of Manitoba)
City Address 325 Sherbrook Street
Winnipeg, Manitoba
R2G 0K2

Ph. 786-5601

Camp Address Box 1106, Gimli, Manitoba, R0C 1B0

Contact Person Judy McKelvy

13. Camp Name - Lake Nutimik Baptist Camp
City Address 7 Venus Bay
Winnipeg, Manitoba
R3T 0Z4

Ph. 475-6402

Camp Address P.O. Seven Sisters, Manitoba, R0E 1Y0

Contact Person Rev. Peter Aaldyck

14. Camp Name - Manitoba Pioneer Camp
City Address 217 - 267 Edmonton Street
Winnipeg, Manitoba
R3C 1S2

Ph. 943-0717

Camp Address c/o Kejick P.O., Kenora, Ontario, P0X 1E0

Contact Person Bryan Hill

15. Camp Name - Red Rock Bible Camp
City Address Box 790
Steinbach, Manitoba
R0A 2A0

Ph. 326-9784

Camp Address Rennie, Manitoba, R0E 1R0

Contact Person Cliff Dirks

16. Camp Name - Wellman Lake United Church Camp
City Address Box 42
Swan River, Manitoba
R0L 1Z0

Ph. 734-2957

Camp Address Box 42, Swan River, Manitoba, R0L 1Z0

Contact Person Murray Wenstob

17. Camp Name - Y.M.C.A. Wilderness Programs
City Address 301 Vaughan Street
Winnipeg, Manitoba
R3B 2N7

Ph. 942-8157

Camp Address Fish Market Dock, Kenora, Ontario

Contact Person Grant Platts

Additional Camps

TallPine Lodges
Whiteshell P.O.
West Hawk Lake, Manitoba
R0E 2H0

Ph. 349-2209

Contact: Don and Nyn Draper

Activities include trail rides, hiking, swimming, boating, golf and tennis in summer; hay rides, snowshoeing, cross-country and downhill skiing, snowmobiling in winter.

Gimli Leadership Training Centre
Box 1286
Gimli, Manitoba
R0C 1B0

Ph. 642-5547

Contact: Buck Matiowski

Lac du Bonnet
School of Wilderness Survival
Box 115
Lac du Bonnet, Manitoba
R0E 1A0

Ph. 345-8691

Contact: Royce Baker

Camp Name	Kilometers from Winnipeg	Direction from Winnipeg	Months Available										Staff Available					Program Equipment Available									
			September	October	November	December	January	February	March	April	May	June	Co-ordinator	Kitchen	Caretaker	Teaching	Counsellors	Canoes	Sailboats	Archery	Horses	Snowshoes	Skiis	Swimming Pool	Rope Course	Orienteering	Skating Rink
1. B'nai B'rith Camp	195	E	x								x	x	x	x	x		x	x									
2. Caddy Lake	180	E																									
3. Camp Arnes	120	N	x	x	x	x	x	x	x		x	x	x	x	x	x		x	x	x	x	x	x			x	
4. Camp Assiniboia	24	W	x	x	x	x	x	x	x	x	x	x	x	x	x					x	x	x		x	x		x
5. Camp Brereton	145	NE	x								x	x			x			x									
6. Camp Koinonia	290	SW	x	x	x	x	x	x	x	x	x	x		x	x			x		x		x					x
7. Camp Manitou	11	W	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x				x			
8. Camp Moose Lake	225	SE	x	x	x	x	x	x	x	x	x	x	x	x	x			x	x	x		x	x				x
9. Camp Stephens	192	E	x								x	x	x	x	x	x	x	x	x	x							
10. Camp Wannakumbac	280	NW	x	x	x	x		x	x	x	x	x	x	x	x			x		x							
11. Camp Wasaga	275	NW	x								x	x		x	x			x		x							
12. Lakeside Camp	105	N		x	x	x	x	x	x	x	x			x	x									x			
13. Lake Nutimik Baptist Camp	160	E	x	x	x	x	x	x	x	x	x				x			x		x							
14. Manitoba Pioneer Camp	150	E	x								x	x	x	x	x	x		x	x	x							
15. Red Rock Bible Camp	160	E	x	x			x	x	x		x	x	x	x	x			x		x		x	x				
16. Wellman Lake United Church Camp	420	NW										x			x			x		x							
17. Y.M.C.A. Wilderness Programs	192	E	x								x	x	x			x	x	x									

These camps are members of the Manitoba Camping Association and this list was compiled by Lily Loewen, Camp Arnes. For additional camps which provide school programs, refer to page 7.

I. PUBLICATIONS, BOOKS AND AUDIO - VISUAL RESOURCES

A. PROVINCIAL DEPARTMENTS

1. DEPARTMENT OF AGRICULTURE

Pamphlets are available from:

Publications Section
Manitoba Department of Agriculture
411 York Avenue
Winnipeg, Manitoba
R3C 3M1

Ph. 944-3845

How to Order: Request publications by mail or personal call.
No more than 5 publications by phone.
Give the full title when ordering.

Agriculture Engineering

1461	Snow and Wind Control for Farmstead and Feedlot (CDA)
1488	Irrigation on the Prairies (CDA)
1534	Canada Animal Waste Management Guide (CDA)
1588	Farm Workshops (CDA)

Animal Science

a) Beef

	Insect Control on Livestock
	Livestock and the Environment
1361	Stock Poisoning Plants in Western Canada (CDA)
1461	Snow and Wind Control for Farmstead and Feedlot (CDA)
1515	Protein Sources for Livestock (CDA)
1557	The Registration of Animals in Canada (CDA)
1749B	Photos - Breeds of Cattle, Horses and Swine

b) Dairy

	Livestock and the Environment
1414	Pictures - Cheese-Making (CDA)
1432	Management and Feeding of Young Dairy Animals (CDA)

c) Poultry

	Livestock and the Environment
1344	Pictures - The Canadian Turkey Industry (CDA)
1345	Pictures - Geese (CDA)
1346	Pictures - The Canadian Broiler Industry (CDA)
1347	Pictures - The Canadian Egg Industry (CDA)
1348	Pictures - Breeds of Chickens (CDA)
1524	Managing a Small Duck Flock (CDA)

d) Sheep

	Livestock and the Environment
1419	Pictures - Sheep (CDA)

Entomology - Insect Control

	Insects and Mites of Manitoba
	Agriculture and the Environment
	Forest Tent Caterpillars (leaflet)
1518	Pesticides - Their Implications for Agriculture (CDA)

Plant Science

a) Field Crops

1386	What You Should Know About Wheat (CDA)
1410	What You Should Know About Coarse Grain (CDA)
1412	What You Should Know About Seeds (CDA)

b) Horticulture

	Recommended List of Fruit Varieties and Zonation Map
	Recommended List of Vegetables
	Native Manitoba Plants in Bog, Bush and Prairie (Adex 200-01)
	Prairie Garden Index (1967-1977)
1575	Northern Gardening (CDA)

c) Soils

	The Nature and Management of Saline Soils
	Soil Testing
1083	Soil Erosion by Water (CDA)
1266	Soil Erosion by Wind (CDA)
1338	What You Should Know About Soil (CDA)

d) Weeds

820	Poison Ivy (CDA)

Rural Development

1415	Pictures - Northern Agriculture (CDA)

General Agriculture

1486	What You Should Know About Pollution and Agriculture (CDA)
1496	The Metric System for Farmers (CDA)

2. QUEEN'S PRINTER

Films are available for loan from:

Queen's Printer
Basement
200 Vaughan Street
Winnipeg, Manitoba
R3C 1T5

Ph. 944-3118

Contact Person: Ms. Terry Kolodaychuk

To Order:
1. List film by title.
2. Show date films are needed for.
3. Print name and address.
4. No rental charge - films are sent by mail only and should be returned the same way. Winnipeg Orders - Pick Up Only

All films are 16 mm, sound and color.

Canoe (10 min.) - Depicts the journey of a lone canoeist in eastern Manitoba's wilderness lake country.

Everyman's Wilderness (26:13 min.) - This film presents the pleasant sights and sounds of nature, which await the vacationing visitor to Manitoba's colorful northland.

Manitoba in Wintertime (14 min.) - This film provides a colorful visual impression of life in the frosty months of winter.

Riding the Waves (27:13 min.) - A tour of Manitoba's rivers and lakes.

Manitoba Moods (13 min.) - This film takes viewers through Manitoba's parks from the Whiteshell to Grass River Provincial Park.

Big Country - Big Fish (13:30 min.) - An angling trip to God's Lake and God's River in northeastern Manitoba.

Fish?...Naturally! (13:30 min.) - An angling trio show that in addition to the thrill of trophy seeking and fast fishing, there is good fun for those who cast off their cares and fish Manitoba.

Catch Our Good Nature - This film follows an ardent fisherman to several of Manitoba's most popular locations where he shares the techniques, triumphs and excitement of sport fishing with his hosts and viewers. A natural tone and disarming presentation enhance the real people, beautiful scenery and excellent fishing featured in the film.

Atikameg (27 min.) - Fishing film

Go Barbless (27 min.) - Fishing film

Manitoba Festival Country (27 min.)

The Many Faces of Winnipeg (25 min.)

Folklorama Winnipeg (13 min.)

3. DEPARTMENT OF CULTURE, HERITAGE AND RECREATION

Publications are available from:

Historic Resources Branch
3rd Floor
177 Lombard Avenue
Winnipeg, Manitoba
R3B 0W5

Ph. 944-4390

The Paleo-Indian Stage in Manitoba (1979) Pettipas, L.

The Rock Paintings of Manitoba (1981) Steinbring, J.H.

Prehistory of the Turtle Mountain District: An Initial Sketch (1981) Popular Series No. 2, Carmichael, P.H.

Introducing Manitoba Archaeology (1982) Popular Series No. 3, Pettipas, L., Editor

Introducing Manitoba Prehistory (1983) Popular Series No. 4, Pettipas, L., Editor

Architectural Heritage: The Brandon and Area Planning District (1983)

Architectural Heritage: The Eastern Interlake Planning District (1983)

Brandon: An Architectural Walking Tour (1982)

Early Architecture of Portage la Prairie (1983)

Anson Northup

Asessippi Townsite

Beautiful Plains County Court Building, Neepawa

C.A. Boulton

Brandon College

Rev. Henry Budd

Sir Thomas Button

Thomas Mayne Daly

Honourable Joseph Dubuc (English)

l'honorable Joseph Dubuc (French)

Frederick Philip Grove

Grund Lutheran Church

E. Cora Hind

Hudson Bay Railway

Kildonan Presbyterian Church
Walter Lynch
Nellie McClung
James McKay
Mandy Mine
Mennonite Settlement - the East and West Reserves
The Settlement of New Iceland
The Nor'Wester
Origin of the Name Manitoba
Our Lady of the Prairies
Pine Fort
St. James Anglican Church
St. Michael's Ukrainian Greek Orthodox Church
St. Paul's Middlechurch
Lord Selkirk
Ernest Thompson Seton
Dr. F.L. Skinner
Dr. David Alexander Stewart, M.D.
Thomas Greenway
Chief Peguis
Peter Fidler
Notre Dame des Prairies
4-H Clubs in Manitoba
Fur Trade in the Swan River Region
Government House
Cuthbert Grant
Legend of White Horse Plain
Manitoba's Boundaries
Duncan McRae
Joseph Royal (English)
Joseph Royal (French)
St. Anne's Church, Poplar Point
St. Peter's Church Dynevor
Seven Oaks House
Silver Heights
Lillian Beynon Thomas
Women's Institutes of Manitoba

4. DEPARTMENT OF EDUCATION

A) CURRICULUM DEVELOPMENT AND IMPLEMENTATION

The following items are available in limited quantities, free of charge, from:

Curriculum Development and Implementation
(Physical Education)
411 - 1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Ph. 944-6877

Philosophy

Outdoor Education

What is Outdoor Education?

History

A Brief History of Outdoor Education in Manitoba

Teacher Aids

General Procedure for Teachers Intending to Guide a Field Experience

Field Trip Guideline

"Man" in the City (Urban Study Projects)

School Grounds Survey: An Inventory of Outdoor Education Facilities

The World Outside Your Window

Awareness

Tips for Observing and Studying in the Outdoors

Outdoor Recreation Needs

Emergency Foods

What to Wear X-C Skiing

Backpacking Tents

Camp Cooking

Camping Gear You Can Make

Schools and X-C Skis

Outdoor Education Sites

- Fort Whyte Nature Trail (Fort Garry, Winnipeg)
- Outdoor Education Sites in Winnipeg
- Outdoor Education Sites in Dauphin
- Outdoor Education Sites in Portage la Prairie
- Outdoor Education Sites in Brandon
- Murdoch MacKay Nature Area (Transcona)
- Kildonan Park
- Seine River Park
- Fraser's Grove Park
- Sargent Park
- Places to Visit in Downtown Winnipeg

Outdoor Education Activities

- Possible Outdoor Activities in Birds Hill Park
- Weather Definitions
- Rules for Amateur Weather Prediction/Weather and Clouds
- Selected Books in Outdoor Education
- An Outdoor Laboratory for Your School (School Site Development)
- Edible Plants
- Fungi Collecting and Spore Printing
- Outdoor Education Activities for Elementary
- The Cemetery: An Educational Resource
- Prendergast Elementary School: Out-of-Door and Outdoor Education Flow Chart
- Playground Activities
- An Approach to School Site Development
- Canoeing
- Mathematics in the Out-of-Doors
- Summary of School Site Resources and Suggested Outdoor Education Activities
- Ten-Minute Walk - Grades 2-5
- Ten-Minute Walk - Grades 3-5
- Exploration Walk
- Our Tree; A Primary Level Exercise
- Outdoor Education Activities for Junior High

Outdoor Education Activities in Hadashville

Treasure Hunt (for use at the Museum of Man and Nature)

Outdoor Education Curriculum Series - Science

Steps to Build an Igloo

R. J. Waugh School - Carberry: Sample Program and Skill Information

Backpacking Leadership Program (outline only)

Insect Collecting

Making Use of Snow

Arithmetic - 6th Grade - Growth in Arithmetic

Outdoor Education Curriculum Series - Have You Tried Adopting a Tree?

Outdoor Education Curriculum Series - Science and Mathematics

B) DEPARTMENT OF EDUCATION LIBRARY

Books, pamphlets and audio-visual resources are available for loan from:

Department of Education Library
Box 3, Main Floor
1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Ph. 944-7832 or 944-7830

WATS Toll Free Line: 1-800-262-8848, extension 7832 or 7830

To Borrow:
1. Come in, write in, or phone in requests.
2. Loan period is 28 days.
3. Loan of materials is free of charge. Postage is paid both ways by the Department of Education.
4. Hours of Operation:

   September - May:

   Monday - Thursday: 8:30 A.M. - 9:00 P.M.
   Friday: 8:30 A.M. - 5:00 P.M.
   Saturday: 9:00 A.M. - 4:00 P.M.

   June, July and August:

   Monday - Friday: 8:30 A.M. - 4:30 P.M.
   (closed Saturdays and evenings)

5. Limitations:
   4 records or cassettes at any one time
   2 kits at any one time
   4 videocassettes per subject area at any one time
   4 books or pamphlets per subject area at any one time
   Audio-visual resources may not be renewed.

(i) BOOKS

Outdoor and Environmental Education

574 A1	Allen, Durward L. The Life of Prairies and Plains. Toronto: McGraw-Hill, 1967.
500.1071 B7	Brainerd, John W. Nature Study for Conservation: A Handbook for Environmental Education. New York: Macmillan, 1971.

574 B7	Brown, Vinson. *Knowing the Outdoors in the Dark*. New York: Macmillan, 1972.
371.38 D65	Donaldson, George W. *Perspectives on Outdoor Education: Readings*. Dubuque: Wm. C. Brown Co. Publishers, 1972.
371.38 D66	Donaldson, Lou and George. *Teaching in the Field*.
372.357 E59	*Environmental Discovery Units*. The National Wildlife Federation, Vol. 1 - 24.
371.38 E38	__________. *Project Environment: Education for the Environment*. London: Longman Group Limited, 1974.
500 F8	Fuller, Richard Buckminister. *Approaching the Benign Environment*. University of Alabama: University of Alabama Press, 1970.
372.357 G64	Goff, Paul. *Nature, Children and You*. New York: Exposition Press, 1974.
500.9701 G7	Gross, Phyllis. *Teaching Science in an Outdoor Environment*. Berkeley: University of California Press, 1972.
372.357 H35	Hamilton, Charles E. *Eco; Suggested Activities to Motivate the Teaching of Elementary Ecology*. Stephensville: Education Service, Inc., 1974.
371.38 H3	Hammerman, Donald R. *Outdoor Education: A Book of Readings*. Minneapolis: Burgess, 1973.
372.83 H3	Harris, Melville. *Environmental Studies*. New York: Citation Press, 1971.
371.623 H5	Hibbs, Clyde William. *An Analysis of the Development and Use of Outdoor Laboratories in Teaching Conservation in Public Schools*. Ann Arbor, Michigan: University Microfilms, 1958.
574.92 Ho	Hofmann, Melita. *A Trip to the Pond; An Adventure in Nature*. Garden City, New York: Parker Pub. Co., 1970.
371.38 H85	*Hundreds of Ideas for Outdoor Education*. Edited by Russel E. Bachert Jr; ill. by Robin L. Harrell. Danville: Interstate Printers and Publishers, 1979.
301.310712 K6	Kotsonis, Helen Hoch. *Modern Lesson Plans in Environmental Science*. West Nyach, New York: Parker Pub. Co., 1972.
372.138 L48	Lewis, Charles Albert. *The Administration of Outdoor Education Programs*. Dubuque: Kendall/Hunt Publishers, 1975.
371.38 M33	Mak, Robert J. *The Effect of an Outdoor Education Program on Student Attitudes and Academic Grades*. 1979.

371.38 I4	Northern Illinois University, Department of Outdoor Teacher Education. Tips and Tricks in Outdoor Education: Approaches to Providing Children with Educational Experiences in the Out-of-Doors. Danville, Ill.: Interstate Printers and Publishers, 1970.
796.5 O7	Ormond, Clyde. Complete Book of Outdoor Lore. New York: Harper and Row Publishers, 1964.
391.38 P38	Pattimore, John. Snow Activity Program. Manitoba Parks Branch, Department of Natural Resources, 1981.
507.2 Pe	Pettit, Ted S. A Guide to Nature Projects. New York: W.W. Norton & Co. Inc., 1966.
371.38 R47	American Association for Health, Physical Education and Recreation. Research in Outdoor Education. Washington, D.C.: The Association, 1973.
574.92 Ro	Robinson, Carmelita Klipple. Life in a Pond. New York: Golden Press, 1967.
	Rosengren, J.H. Outdoor Science for the Elementary Grades. Scarborough, Ontario: Prentice Hall of Canada, 1972.
372.357 R87	Russell, Helen Ross. Ten Minute Field Trips: Using the School Grounds for Environmental Studies. Chicago: J.G. Ferguson Pub. Co., 1973.
372.357 S3	Sale, Larry L. Environmental Education in the Elementary School. New York: Holt, Rinehart and Winston, 1972.
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(iii) AUDIO-VISUAL RESOURCES

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PT 301.31 C65	Commoner, Barry. Science and Social Action. National Science Teachers Association, 1972. (1 cassette)
K 301.31 E3	Ecology: Understanding the Crisis. Encyclopedia Brittanica Educational Corporation, 1972. (6 cassettes, 6 filmstrips)
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K 301.31 T44	Thexton, Catherine. An Ecology Module: The Biotic Components of an Ecosystem. Instructional Media Services, Manitoba Department of Education, 1978. (44 leaves in binder, 60 slides)
PT 301.31 L5d	"Limits to Growth" and Its Detractors. C.B.C. (Learning Systems)
PT 301.31 L5p	"Limits to Growth" and Its Proponents. C.B.C. (Learning Systems)
K 301.31 M35	Man and His Environment: in Harmony and in Conflict. The Center for Humanities, 1971. (160 slides, 4 cassettes, 2 records, teacher's guide)
PT 301.32 P6	Population Growth. C.B.C. (Learning Systems)
K 301.32 S35	The Science and Ethics of Population Control: An Overburdened Earth? Science and Mankind, Inc., 1975. (160 slides, 2 cassettes, 2 records, teacher's guide)

Outdoor Education

K 613.89 09	Outdoor Survival. Moreland - Latchford. (6 filmstrips, 6 cassettes, guide) Contents: 1. Water Rescue 2. First Aid in the Bush 3. Basic Distress Signals 4. Elementary Canoeing 5. Outdoor Survival Kit 6. How to Make a Fire and Shelter
K 796.5 098	Outdoor Education. Moreland - Latchford. (6 filmstrips, 6 cassettes, guide)
K 796.5 088	Outdoor Education (Kit). Gino Ferr (ed.) (2 filmstrips, 2 cassettes)

Biology

K 574 Ec	Ecology: Land and Water. Jamaica, N.Y.: Eye Gate House. (4 filmstrips, 2 records)
K 574 S83	Starting Life. Visual Publications, 1974. (4 filmstrips, 4 sound cassettes, 4 guides)
K 574.5 E96	Exploring Ecology. National Geographic Society, 1974. (5 filmstrips, 5 cassettes, teacher's guide)
K 574.5 W4	What is Ecology? Warren Schloat, 1972. (1 filmstrip, 1 cassette, teacher's manual)

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K 551.5 P37	Parker, Don H. *Weather and Climate*. Chicago, SRA, 1963.
K 574.5 G74	*Green Plants in a Community*. Chicago: Society for Visual Education, 1973. (1 filmstrip, 1 sound cassette, 1 teacher's guide)

(iv) PERIODICALS

Periodicals do not leave the Department of Education Library. Winnipeg teachers are requested to come in person to the library to use these materials. Teachers outside of Winnipeg can receive, free of charge, limited numbers of xeroxed copies of requested magazine articles. For further information, contact the Periodicals Technician at 944-7831 or Toll Free Line 1-800-262-8848 extension 7831.

Periodicals in the subject area of Outdoor Education include:

BEAVER (Spring, 1974 - to date)

Hudson's Bay Company
Hudson's Bay House
77 Main Street
Winnipeg, Manitoba
R3C 2R1

Frequency: quarterly
Price: $10.00

BULLETIN OF ENVIRONMENTAL EDUCATION (Nov., 1974 - to date)

Streetwork
BEE SUBS
c/o Notting Dale Urban Studies Centre
189 Freston Road
London W10 6TH

Frequency: monthly
Price: £17.00

CHICAKADEE (1983 - to date)

Chickadee
Young Naturalist Foundation
59 Front Street East
Toronto, Ontario
M5E 1B3

Frequency: 10 times per year
Price: $12.00

CONSERVATION COMMENT (June, 1976 - to date)

Manitoba Department of Natural Resources
Box 22
1495 St. James Street
Winnipeg, Manitoba
R3H 0W9

Frequency: irregular
Price: free

DAWSON AND HIND (March, 1974 - to date)

The Association of Manitoba Museums
190 Rupert Avenue
Winnipeg, Manitoba
R3B 0N2

Frequency: quarterly
Price: $10.00

EQUINOX, THE MAGAZINE OF CANADIAN DISCOVERY (1982 - to date)

Equinox
7 Queen Victoria Road
Camden East, Ontario
KOK 1J0

Frequency: 6 times per year
Price: $19.50

GEOS (Summer, 1976 - to date)

GEOS
Energy, Mines and Resources
580 Booth Street
Ottawa, Ontario
K1A 0E4

Frequency: quarterly
Price: free

JOURNAL OF ENVIRONMENTAL EDUCATION (1970/71 - to date)

Heldref Publications
4000 Albemarle Street N.W.
Washington, D.C. 20016

Frequency: quarterly
Price: $30.00

JOURNAL OF OUTDOOR EDUCATION (Winter, 1975 - to date)

The Editor
Box 299
Oregon, Illinois 61061

Frequency: twice a year
Price: free

MANITOBA OUTDOOR EDUCATION ASSOCIATION NEWSLETTER (1977 - to date)

Manitoba Teachers' Society
191 Harcourt Street
Winnipeg, Manitoba
R3J 3H2

Frequency: 5 times per year
Price: $15.00

NATIONAL GEOGRAPHIC (1959 - to date)

National Geographic Society
17th and M Streets N.W.
Washington, D.C. 20036

Frequency: monthly
Price: $15.00

NATIONAL GEOGRAPHIC WORLD (Sept., 1975 - to date)

National Geographic Society
Department 00583
17th and M Streets N.W.
Washington, D.C. 20036

Frequency: monthly
Price: $14.40

NATIONAL WILDLIFE (1974 - to date)

National Wildlife Federation
8925 Leesburg Pike
Vienna, Virginia 22180

Frequency: bi-monthly
Price: $12.50

NATURAL HISTORY MAGAZINE (April, 1967 - to date)

Natural History Membership Services
Box 4300
Bergenfield, New Jersey 07621

Frequency: monthly
Price: $20.00

NATURE CANADA (1973 - to date)

Magazine Services
Canadian Nature Federation
75 Albert Street
Suite 203
Ottawa, Ontario
K1P 6G1

Frequency: quarterly
Price: $15.00

OUTDOOR CANADA (Dec., 1972 - to date)

Outdoor Canada Magazine Ltd.
953A Eglinton Avenue East
Toronto, Ontario
M4G 4B5

Frequency: 8 times per year
Price: $9.77

OWL, THE DISCOVERY MAGAZINE FOR CHILDREN (May, 1977 - to date)

Owl
The Young Naturalist Foundation
59 Front Street East
Toronto, Ontario
M5E 1B3

Frequency: 10 times per year
Price: $12.00

RANGER RICK'S NATURE MAGAZINE (May/June, 1975 - to date)

National Wildlife Federation
1412 - 16th Street N.W.
Washington, D.C. 20036

Frequency: monthly
Price: $14.50

SCIENCE ACTIVITIES (1970 - to date)

HELDREF Publications
4000 Albemarle Street N.W.
Washington, D.C. 20016

Frequency: quarterly
Price: $30.00

SCIENCE AND CHILDREN (1965/66 - to date)

National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

Frequency: 8 times per year
Price: $31.00

SCIENCE TEACHER (1953 - to date)

National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

Frequency: monthly
Price: $37.00

Other useful titles that are no longer published, which you may find in your school library or at the Department of Education Library, include:

CONSERVATION CANADA (July, 1975 - Summer, 1980)

ARCTIC IN COLOUR (Summer, 1972 - 1978)

MANITOBA NATURE (Winter, 1972 - Summer, 1982)

N.B. - The dates following the titles of periodicals indicate the holdings of the Department of Education Library.

- The prices quoted are for 1983 and are subject to change without notification.

Periodical indexes provide valuable access to the materials found in journals. The subject heading OUTDOOR EDUCATION in the following periodical indexes will lead you to more information.

CURRENT INDEX TO JOURNALS IN EDUCATION

EDUCATION INDEX

CANADIAN EDUCATION INDEX

(v) AUDIO AND VIDEO TAPES

Tapes are available for dubbing from:

Dubbing Services
Department of Education Library
Box 4, Main Floor
1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Ph. 944-7848

1. FREE AUDIO AND VIDEO TAPE DUBBING:

The following master tapes are held by Dubbing Services, Department of Education Library. To procure a copy of any one of the programs listed:

(1) Itemize the desired programs (title of program/series and title number). State name of school division, name of school and teacher.

(2) With the order, enclose sufficient audio and/or video tape for dubbing the required programs.

a) For Audio:

Cassette C-30 accommodates 15 minutes per side; C-60, 30 minutes per side; C-90, 45 minutes per side. Programs cannot be "split" in dubbing onto cassettes. PLEASE DO NOT SEND C-120 cassettes, or any variety of reel-to-reel tape.

b) For Video:

Copies of video tape programs can be obtained on 3/4 inch video cassette and 1/2 inch video cassette (BETA or VHS).

2. TAPE PURCHASE:

Audio and video tapes may be purchased through the Manitoba Textbook Bureau. Attach your dubbing request to the Manitoba Textbook Bureau tape purchase request. Send both to the Manitoba Textbook Bureau. The Manitoba Textbook Bureau will bill for the blank tapes and the Library will do the appropriate dubbing at no cost to the requestor.

AUDIO AND VIDEO TAPES
(AT) (VT)

AGES 6-8

SCIENCE

Creatures Small (12 min.)

To introduce children to interesting features of the life habits and characteristics of some of our most often seen insects.

1.	The Honeybee	AT-95
2.	The Grasshopper	AT-96
3.	The Ant	AT-97
4.	The Dragonfly	AT-98
5.	The Housefly	AT-99
6.	The Mosquito	AT-100

Animal Homes

All creatures have homes - each suited to the lifestyle, needs and habits of the individual. This series deals with homes of a variety of creatures in three different groups of nature's families - birds, insects and animals.

1. Homes of Feathered Friends (30 min.) VT-513
2. Tree-Trunk Apartments (30 min.) VT-514
3. Homes of Finest Silk (30 min.) VT-515
4. Chicadee Chuckwagon (15 min.) VT-600
5. At Home Between the Tides (15 min.) VT-601
6. At Home in Rock Pools (15 min.) VT-602
7. At Home in Sand and Eel Grass (15 min.) VT-603
8. At Home on Stony Beaches (15 min.) VT-604

SOCIAL STUDIES

Let's Go Find Out (20 min. each)

Series is designed to complement the social studies program at the primary level.

1. About Dogs (VT-284)

   Though the program offers glimpses into some areas of dog training for specific duties, the chief purpose of the program is to further strengthen a child's joy and wonder in experiencing the relationship which should be an integral part of owning, caring for and just "loving" a dog.

2. About Farms (VT-572)

A program in which viewers make initial acquaintance with a grain farm, a beef herd, dairy cattle and egg production. Specific features of each industry are pointed out, and children are encouraged to realize the dependence which everyone has on the farm and the farmer.

AGES 9-12

INTER-DISCIPLINARY

It's Fun to Draw (26 min. each)

Canoes	AT-307
Growing Things	AT-315
Magic of Winter	AT-317
Sounds in the Night	AT-310

Tattle Trail (15 min. each)

Encourages teachers to take advantage of beyond-the-classroom activities in the areas of nature study, science, art, language, social studies and the communications arts.

Autumn I AT-554

Autumn II AT-555

Students investigate how plants and creatures of the animal, bird and insect worlds prepare for the coming of a western Canadian winter.

Autumn III AT-556

Using the senses to give clues to information and activities of the natural world.

Winter I AT-557

Observations of nature during the winter season are collected and recorded.

Winter II AT-558

Observations of snowflakes and of differences between wet and dry snow; nature's use of snow as compared to man's use of snow; study of tracks in the snow; snow ecology.

Winter III AT-559

Study of animals and birds on the winter landscape in Manitoba; means of survival over long periods of cold weather and man's part in assisting creatures in the process of survival.

Spring I AT-560

A look at spring-time occurrences--new growth of plants, insects, birds and animal activities.

Spring II AT-561

Study of planting; transplanting; relationships of soil and plants in a nature trail setting and unique features of plants and animals.

Spring III AT-562

Emphasis is on the relationships between man and nature, man's role in the preservation and conservation of plant and animal life and on the importance of each person's seeing the world around as a tantalizing storehouse to be explored for exciting and useful information.

SCIENCE

Science, Simply (15 min. each)

Simple, everyday events are explained scientifically in a series of four 15-minute programs, based on the textbook "Concepts in Science". Each program will show easy-to-follow, do-it-yourself experiments.

1. Sound (VT-130)

   This program explores the world of sound; how sounds are produced and how they travel to reach our ears.

2. Light (VT-133)

   This program looks into light and its unique properties and behaviours.

3. Water (VT-140)

   This program investigates water: what it is, where it comes from, and where it "disappears" to.

4. Air (VT-143)

   This program is a study of air and molecules of which it consists.

Nature's Ways

The series will consider how nature feeds her wild animals and supplies energy power for the perpetuation of life; stresses on wildlife as man invades natural habitats and conservation techniques to avoid hazards.

1. Extinction as a Way of Life (30 min.) VT-352

   The program considers the effect of extinctions on our geologic past, how the rise and fall of creatures were affected by global changes, and how man has contributed to premature extinctions.

2. Game Ranching (30 min.) VT-384

   The concept of game ranching had its beginnings in Africa. In North America, the commercial harvesting of bison, reindeer, caribou and muskoxen has been considered in relation to the needs of native peoples and the demands of a domestic market, but it must be recognized that wild meat production at any commercial level is still in the stages of theory and research. People's attitudes, legislation and different approaches to wildlife management are all factors which will influence the future direction of "game ranching".

Sno' Use (20 min. each)

This series looks at all the interesting activities we can enjoy through snow use and all the good things about a winter season.

1. Adapt or...? (VT-256)

   This program takes a look at how birds, animals and man have adapted to winter and at the ways we are encouraged to enjoy the best of the season and so relieve our cold weather tensions.

2. Tracking Down the Subject (VT-691)

   Children sketch winter scenery and learn how to make casts of snow tracks.

3. Prove It to Me (VT-255)

   Interesting facts such as the purity of snow, the amount of water in snow, the temperature of ice and the wind chill factor are discussed. A visit to an ice fishing derby and the making of an ice lens are other attractions of this program.

4. Winter in the Making (VT-542)

   The narrator demonstrates some of the causes of winter, discusses the variety of forms taken by water vapor and explores differences between hoar frost, rime frost, glaze ice, snowflakes and sleet. The making of an ice tree is demonstrated.

SOCIAL SCIENCE

One Cubic Metre (15 min.)

This series attempts to visually explore three distinct biological environments by a detailed examination of one cubic metre of each. Program concepts include: sun is a primary energy source, physical and biological are tightly interwoven, organisms are adapted to specific environments, life forms are classified as producers, consumers and decomposers.

1. Beach Me! (VT-531)

   The program takes a look at an inter-tidal beach on a rocky shore and explores some of the things that make it tick.

2. Pond - My Word! (VT-532)

   The program is a study of the edge of a small pond.

3. Forest Floor (VT-533)

SOCIAL STUDIES

Communities West (30 min. each)

The purpose of this series is to increase knowledge of an interest in all parts of western Canada.

Carberry, Manitoba (VT-206)

Gimli, Manitoba (VT-274)

Steinbach, Manitoba (VT-103)

Selkirk, Manitoba (VT-536)

Atoms at Whiteshell (Pinawa) (VT-204)

Churchill on the Bay (VT-429)

St. Boniface, Manitoba (VT-530)

Outpost, Manitoba (VT-609)

Winnipeg, O Winnipeg (VT-101)

"Lakeshore", Manitoba (VT-304)

On a little-publicized strip of land abutting a central section of Lake Manitoba shoreline, residents have developed their own colourful ways of adapting to environment. Viewers learn of the early history of the area, of pioneer struggles, of projects, industries, and of some of the central characters which play on the stage of "Lakeshore" - Manitoba.

Know Your Province (15 min. each)

The series aims to acquaint students with features and activities of the province in which we live.

1. One-Room School House (VT-474)
2. Energy (VT-566)
3. Wild Rice (VT-567)
4. Commercial Fishing (VT-568)
5. The Forest (VT-569)
6. International Peace Garden (VT-570)

Lay of the Land (30 min. each)

The four western provinces, considered as one geological unit, cover more territory than most European countries and have more varied topographical features than almost any other single geographical unit in the world.

1. Entering the Gateway (VT-198)

   Deals more specifically with shield, parkland, northern sea, lakes and forest, with limited reference to other features.

2. Waste Lands Or...? (VT-353)

   Examines the origins of prairie, marsh and desert, the extent of manmade and natural changes; possible benefits of these geographical features and preservation and conservation plans and projects.

3. The Solid Lands (VT-199)

   Rivers originating at the Great Divide flow to three oceans, creating the major watershed of the N.A. Continent and developing historical, economic and human patterns.

4. Western Cordillera (VT-354)

   Stretching from the Rocky Mountain trench to the coastal shelf, the Western Cordillera is the topographical barrier between the continental interior and the Pacific Ocean.

Regions of Canada (30 min. each)

A major concept throughout the series is the interaction between man and his environment. Not only does his environment shape man's activities, but man's activities can and do change the nature of his total environment.

1. The Arctic (VT-86)
2. The Prairies (VT-1)
3. The Western Mountain Area (VT-42)
4. The Atlantic Region (VT-18)

"Snake" Preview (10 min.) VT-879

The program is an authentic presentation of "snakes" as they exist in a part of the Interlake area of Manitoba.

AGES 12-14

SOCIAL STUDIES

Know Your Province (15 min. each)

The series aims to acquaint students with features and activities of the province in which we live.

1. One-Room School House (VT-474)
2. Energy (VT-566)
3. Wild Rice (VT-567)
4. Commercial Fishing (VT-568)
5. The Forest (VT-569)
6. International Peace Garden (VT-570)

Communities West (30 min. each)

The purpose of this series is to increase knowledge of an interest in all parts of western Canada.

Carberry, Manitoba (VT-206)
Gimli, Manitoba (VT-274)
Steinbach, Manitoba (VT-103)
Selkirk, Manitoba (VT-536)
Atoms at Whiteshell (Pinawa) (VT-204)
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"Lakeshore", Manitoba (VT-304)

On a little-publicized strip of land abutting a central section of Lake Manitoba shoreline, residents have developed their own colourful ways of adapting to environment. Viewers learn of the early history of the area, of pioneer struggles, of projects, industries, and of some of the central characters which play on the stage of "Lakeshore" - Manitoba.

AGES 14+

SOCIAL STUDIES

Energy (30 min. each)

This series investigates "energy" in global, rather than in nationalistic, terms.

1. The Consumption Assumption (VT-458)

   This program examines the flow of various kinds of energy in primitive societies, as well as the highly wasteful consumption in the industrial world.

2. Which Eco Is Loudest (VT-459)

   It is only within the last two decades that people have caught on to the fact that the resources of this planet are limited. This program examines some of the accepted trade-offs between what is economically desirable and what is ecologically sound.

3. Tilting at Windmills (VT-867)

   Some new and some old fangled ideas about converting natural forces into usable energy will be examined.

GENERAL

Happiness is Winter (10 min.) VT-873

Glimpses of winter's beauty in swirl and drift and snow-laden trees, interspersed with the good spirit of winter activities - all portrayed over a background of suitable seasonal music.

Assiniboine Park Zoo (20 min. each)

The modern zoo is examined as both a place for entertainment and a centre for research and learning about ecology and conservation.

1. We're at Home! (VT-470)

   Canadian animals.

2. We're from Afar! (VT-871)

   Exotic animals.

(vi) 16 MM FILMS (BOOKABLE AND SELF-SERVE)

Films are available for loan from:

Film Booking and Reference Services
Department of Education Library
Main Floor
1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

To Book a Film:

TELEPHONE: In Winnipeg: 944-7849
Outside Winnipeg: 1-800-592-7330

FOR ASSISTANCE (not bookings) CALL THE FILM LIBRARIAN:

In Winnipeg: 944-7851
Outside Winnipeg: 1-800-262-8848, extension 7851

Film Booking Information:

- HOURS - 8:00 A.M. - 4:30 P.M.; Monday through Friday
- Request films by phone or mail.
- Client number, film title and film number must be quoted on any requests.
- Bookings will be made up to two months in advance, and will be confirmed over the phone or by mail.
- Booking forms are available upon request.
- Please initiate the return of the film(s) on the "ship film by" date on the packing slip. Failure to return films on time may result in suspended borrowing privileges.

Self-Serve Films:

- This film collection is located in the Department of Education Library, Main Floor, 1181 Portage Avenue.
- Films cannot be booked.
- Films must be picked up and returned in-person and MUST NOT be returned by mail or courier.
- The loan period is 5 working days.
- There is a limit of 2 titles which may be borrowed at one time.
- Failure to return films on time may result in suspended borrowing privileges.
- HOURS - 8:00 A.M. - 4:30 P.M.; Monday through Friday

ABOUT FLOWERS (0263) (SELF-SERVE #10-E-16)

(National Film Board of Canada/Montreal/1965/1 reel/7min./sound/color/16 mm) (Grades 4-6)

A nature lesson taught in a field of flowers. Designed for elementary science studies, the film answers questions that children ask. Two children playing in a meadow learn from an elderly neighbor how and why flowers attract bees, how fertilization occurs, how seeds are formed, how old plants die and new plants come to life.

ABOUT RIVERS (1415)

(Toronto/Visual Education Centre/1972/1 reel/11 min./sound/color/16 mm/The About Series) (Grades 4-6)

Presents the many ways people use rivers other than for recreation, such as fishing, swimming, boating and sailing. Shows the Thais living on their river in floating houses, farmers in dry regions diverting water from the nearest river for irrigation and lumbermen using rivers to transport logs. Discusses how major rivers such as the Nile in Africa and the Rhine in Europe are so crucial to the transportation of freight and travelers that they are considered super highways of commerce.

ABOVE THE HORIZON (0386)

(American Meteorological Society/Montreal/made and released by National Film Board of Canada/1965/1 reel/21 min./sound/color/16 mm) (Grades 7-12; adult)

A study of the atmospheric sciences. Shows how weather patterns on earth are created by the forces in the outer atmosphere.

ABOVE THE TIMBERLINE: THE ALPINE TUNDRA ZONE (1324)

(Montreal/National Film Board of Canada/1960/1 reel/16 min./sound/color/16 mm) (Grades 4-12; adult)

Explores the upper regions of the Alpine tundra zone, showing close-up pictures of the flora and fauna which survive in extremes of altitude and cold. Explains that Alpine heights, with climatic conditions not like those of the Poles nurture a remarkable variety of vegetation, including bright flowers and plants with hairy or waxed leaves. Mountain goats, elk and bighorn sheep can be seen.

THE ACCESSIBLE ARCTIC (0193)

(National Film Board of Canada/Montreal/1967/1 reel/24 min./sound/color/16 mm) (Grades 4-12)

Illustrates how the rapid extension of roads, airways, railroads and communications has aided in the development of comfortable and varied living conditions in the Canadian north.

ADVENTURES (0264)

(Montreal/National Film Board of Canada/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

Presents the adventures of a young raccoon who journeys through the woods and encounters a rabbit, a bee, a tractor, a farmer, and a little boy.

ADVENTURES OF A BABY FOX: A STORY IN RHYME (1003) (SELF-SERVE #7-C-20)

(Stockholm/Svensk Filmindustri/1955/1 reel/13 min./sound/B & W/16 mm) (Grades 4-6)

Follows, with rhymed commentary, the antics of a small fox in his natural forest surroundings, showing his contacts with the insect, plant, bird and animal inhabitants of woods and lakeside. Designed to serve as a basis for creative writing and discussion.

THE AGING OF LAKES (0820)

(Chicago/Encyclopaedia Britannica Educational Corp./1971/1 reel/14 min./sound/color/16 mm) (Grades 7-12)

Traces the aging process of lakes, showing how man's interference with the environment causes critical changes in the natural ecology. Describes efforts to preserve and restore damaged lakes.

AIR AND WHAT IT DOES (0661)

(Chicago/Encyclopaedia Britannica Films/1962/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

The problem-solving approach gives children an opportunity to discover basic concepts about air.

THE AMERICAN WILDERNESS (1418)

(New York/NBC News/1971/2 reels/50 min./sound/color/16 mm) (Grades 10-12)

Points out that a technological society exerts great pressure on wild areas in terms of development, raw materials, and recreational use.

AMPHIBIANS (1573)

(Chicago/Coronet Instructional Films/1957/1 reel/11 min./sound/color/16 mm)
(Grades 4-9)

Shows the similarities and differences in amphibians--frogs, toads and salamanders. Describes how and where they live, where they eat, and what changes they undergo in their development and metamorphosis. Follows the life cycle of the frog.

ANGIOSPERMS - THE FLOWERING PLANTS (0511)

(Encyclopaedia Britannica Films, inc./1962/1 reel/20 min./sound/color/16 mm)
(Grades 7-12)

Examines the structural and reproductive characteristics which distinguish the angiosperms from other plants. Combines animated drawings with time-lapse photography to show the processes of pollination, formation of seeds and fruit, seed dispersal, and plant growth. With film guide.

ANIMAL FRIENDS (3422)

(National Film Board of Canada/1959/1 reel/11 min./sound/B & W/16 mm)
(Grades 4-6)

"Roll-call in the Rockies" visits the Banff National Park, a wildlife sanctuary where census takers on horseback make an annual animal survey. Includes scenes of bighorn sheep, deer, bear, buffalo and other animals. "Zoo comes to class" features a wallaby from Australia, an anteater, a penguin, a pair of baby rock pythons and other animals from Stanley Park Zoo are taken to a natural history classroom in an elementary school in Vancouver. "It's a dog's life" shows the work of the Society for Prevention of cruelty to Animals in Montreal and a visit to the kennels.

ANIMAL HOMES (1413) (SELF-SERVE #10-D-5)

(Chicago/Encyclopaedia Britannica Films, inc./1955/1 reel/10 min./sound/B & W/ 16 mm) (Grades 4-6)

Explains that different animals choose different places in which to build their homes. Shows representative examples of animal homes in trees, in the earth, and in water. Includes exterior and interior views of the homes of trap-door spiders, skunks, racoons, hornets and others.

THE ANIMAL MOVIE (0194)

(Ottawa/National Film Board of Canada/1966/1 reel/10 min./sound/color/16 mm)
(Grades 4-6)

Explores, through animation, the movement of animals, illustrating that man cannot physically compete with them.

ANIMAL TOWN OF THE PRAIRIE: PRAIRIE DOGS AND THEIR NEIGHBORS (0190)

(Encyclopaedia Britannica Films/1959/1 reel/10 min./sound/color/16 mm)
(Grades 4-9)

Shows how prairie dogs, with their tireless construction of burrows and their collective eating habits, reshape the environment to suit their own needs.

ANIMALS AT WORK IN NATURE (2636) (SELF-SERVE #10-C-15)

(Encyclopaedia Britannica Films, inc./1956/1 reel/10 min./sound/color/16 mm)
(Grades 4-6)

How animals with highly-specialized body parts adapt to their environment. Close-up photography shows building of homes, raising of young and acquiring and storing of food. Scenes of woodpecker drilling bark, a mosquito sucking blood from an arm and an oriole weaving her nest.

ANIMALS IN WINTER (0413) (SELF-SERVE #10-E-17)

(Chicago/Encyclopaedia Britannica Films/1950/1 reel/11 min./sound/B & W/16 mm)
(Grades 4-9)

Studies various wild animals as they prepare for and live through the winter season. Portrays the wildlife in its natural setting.

ANT WORLD (0053)

(New York/Pyramid Films/1972/1 reel/15 min./sound/color/16 mm) (Grades 4-12)

Documents the life cycle and lifestyle of the common ant and, using man as a parallel, explains how the class structure of certain ant colonies constitutes a society based on division of labor.

ARCHERY FUNDAMENTALS (1419)

(Hollywood/Bailey Films, inc./1961/1 reel/11 min./sound/color/16 mm)
(Grades 7-12; adult)

Uses close-ups, slow motion and animation to give beginning archers basic knowledge about shooting equipment, proper methods of choosing and using it, and safety measures. Shows step-by-step procedures in preparing to shoot, sighting the target, and releasing the arrow.

ARTIFICIAL RESPIRATION (1957) (SELF-SERVE #1-D-17)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm)
(Grades 4-12)

Presents close-up illustrations of mouth-to-mouth resuscitation and the new manual technique, the recently approved Sylvester method. Also known as: Outdoor recreation: artificial respiration.

AS TALL AS THE MOUNTAINS (0490)

(Adolph Coors Co./1964/1 reel/35 min./sound/color/16 mm) (Grades 7-12; adult)

Shows the wilderness activities at Outward Bound School, a 26-day experience which aims to develop character in young people through challenges in the form of demanding physical activities.

AT THE AUTUMN RIVER CAMP (3231)

(Education Development Center, in association with the National Film Board of Canada/1967/2 reels/60 min./sound/color/16 mm) (Grades 7-12; adult)

Life among the Netsilik Eskimos in late autumn shows Eskimos building their karmaks in the river valley, building an igloo, and beginning to make a sleigh. No narration.

AT THE CARIBOU CROSSING PLACE (3230)

(Education Development Center, in association with National Film Board of Canada/ 1967/2 reels/61 min./sound/color/16 mm) (Grades 7-12; adult)

The Netsilik Eskimos in early autumn, showing the men hunting caribou and the women working at the skins, cleaning sinews, and hanging them to dry. No narration.

AT THE SPRING SEA ICE CAMP (3233)

(Education Development Center, in association with National Film Board of Canada/ 1967/3 reels/81 min./sound/color/16 mm) (Grades 7-12; adult)

Portrays the traditional Eskimo life among the Netsilik Eskimos. Shows the men hunting seal through ice and hunting other animals, as two Eskimo families travel across the sea ice and build small igloos. No narration.

AT THE WINTER SEA ICE CAMP (3232)

(Education Development Center, in association with the National Film Board of Canada/1967/4 reels/135 min./sound/color/16 mm) (Grades 7-12; adult)

Shows scenes of Netsilik Eskimos of the Canadian Arctic at their winter sea ice camp. Includes scenes of the children at play. Shows the Eskimo building a large ceremonial igloo, hunting seal, participating in trials of strength for men and games for women, story-telling, juggling, engaging in the drum dance, and sharing seal meat. No narration.

ATONEMENT (0811)

(Montreal/National Film Board of Canada/1970/2 reels/51 min./sound/color/16 mm) (Grades 7-12; adult)

Shows how the Canadian Wildlife Service tracks down rare species of animals and birds in danger of extinction, and gives them a chance to live and multiply by transferring them to national parks.

BASIC ROCK CLIMBING (0679) (SELF-SERVE #1-D-21)

(Toronto/Moreland-Latchford Productions/1973/1 reel/14 min./sound/color/16 mm) (Grades 7-12)

An expert climber provides basic instruction on the principles of rock climbing. Also known as: Outdoor education: basic rock climbing.

BATTLE OF THE BUGS (1347) (SELF-SERVE #8-A-7)

(Los Angeles/Stanton Films/1977/1 reel/11 min./sound/color/16 mm) (Grades 7-12)

Shows ways in which aphids, a destructive family of insects, are destroyed by their natural enemies, which include the ladybug, the parasitic wasp, the syrphid fly, and the green lace-wing. Includes scenes of full life-cycles with view of the larva and the pupa.

THE BEACH: A RIVER OF SAND (2378)

(Chicago/Encyclopaedia Britannica Films/1965/1 reel/20 min./sound/color/16 mm) (Grades 10-12; adult)

Describes the flow of a beach, and explains methods of measuring the movement of the sand. Investigates the origins and destinations of sand and the effects of human efforts to control the shape of a coast.

BE WATER WISE (1155)

(Montreal/Sun Life Assurance Co. of Canada/1963/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

Discusses basic aspects of water safety, emphasizing the proper method for floating and treading water and the proper procedures for rescue operations.

BEAVER DAM (0409)

(Montreal/National Film Board of Canada/1960/1 reel/16 min./sound/color/16 mm) (Grades 4-6)

BEAVER MAKES A COMEBACK (2571)

(Ottawa/Canada, Department of Citizenship and Immigration/1953/1 reel/16 min./sound/color/16 mm) (Grades 4-12)

An account of a government-sponsored beaver conservation project. Contrasts the economic plight of the Indian population, when the beaver had been all but exterminated, with the improved living conditions after the area was restocked. Information in this film is dated, although it is still of value for educational purposes.

BEAVERS (1681) (SELF-SERVE #7-C-13)

(Encyclopaedia Britannica Films, inc./1950/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

Shows activities of the beaver in its natural environment. Illustrates ways in which the beaver's teeth, feet and tail help him in swimming, eating, felling trees and repairing a broken dam. Reveals the unique construction of a beaver house, and stresses the importance of the animal as an agent of conservation and as a valuable fur bearer.

BICYCLE TODAY--AUTOMOBILE TOMORROW (0763)

(Los Angeles/Sid Davis Productions/1969/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

Points out the responsibility of bicycle riders to keep their vehicles in good running order and repair, and to know and obey all traffic laws.

BICYCLING ON THE SAFE SIDE (0728)

(Santa Monica/Ramsgate Films/1974/1 reel/16 min./sound/color/16 mm) (Grades 4-6)

Uses the popular ten-speed bicycle in explaining and demonstrating safe riding techniques, traffic laws, potential bicycling hazards, maintenance tips and ways to guard against bicycle theft.

BIRD HOMES (0732) (SELF-SERVE #7-B-3)

(Encyclopaedia Britannica Films, inc./1957/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Shows different kinds of bird homes, the habitats in which they can be found, and the types of materials used in nest building.

BIRD NEIGHBOURS (1215) (SELF-SERVE #3-B-12)

(Ottawa/Department of Northern Affairs and Natural Resources, Canada/1955/ 1 reel/10 min./sound/color/16 mm) (Grades 4-9)

Studies familiar Canadian birds in their natural surroundings. Colour close-ups focus on the birds' appearance and activity. Demonstrates how to build bird houses and attract birds.

BIRDS ARE INTERESTING (2577) (SELF-SERVE #10-B-21)

(Encyclopaedia Britannica Films, inc./1950/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Deals with the classification of birds and the evolutionary variations in feet, bill and wing structures for purposes of adaptation. Discusses migration among birds, speculates upon its cause, and compares routes and distances of various species.

BIRDS OF CANADA (3583)

(National Film Board of Canada/1951/1 reel/9 min./sound/color/16 mm)
(Grades 4-12)

The pileated woodpecker, yellow-bellied sapsucker and common loon are objects of study.

BIRDS OF OUR STORYBOOKS (2697) (SELF-SERVE #10-E-15)

(Chicago/Coronet Instructional Media/1978/1 reel/9 min./sound/color/16 mm)
(Grades K-3)

The physical traits, calls and habits of the robin, cardinal, crow, owl, bluejay, sparrow, woodpecker, wren and seagull are integrated with poems and stories to encourage closer observation and reading. With guide.

BIRDS ON A SEASHORE (0840) (SELF-SERVE #5-B-7)

(Toronto/Visual Education Centre/1970/1 reel/11 min./sound/color/16 mm)
(Grades 4-6)

Film records bird activities in the world's largest bird colony on the Mainland and off-shore islands of Peru and Chile. No narration.

BOATING AND GOOD SENSE (0656)

(Ottawa/Crawley Films/1963/1 reel/14 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates the proper method of equipping, starting and handling a power boat. Discusses safe practices for the water skier and the person handling the boat.

BOAT TRIP (2909)

(Los Angeles/Educational Horizons/1970/1 reel/13 min./sound/color/16 mm)
(Grades K-6)

Describes basic types of ships, locks and waterways, as well as ship and geographic terms encountered by an eight-year-old girl and her grandfather, a sea captain, as they deliver a new boat to a distant harbor.

A BOY'S JOURNEY THROUGH A DAY (2991)

(Chicago/Coronet Instructional Films/1970/1 reel/16 min./sound/color/16 mm)
(Grades 4-9)

A language arts film which follows a boy as he fishes, explores, and daydreams in the woods. Without narration.

BROWN BEARS GO FISHING (2208)

(Coronet Instructional Films/1955/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Tells about the habits of polar bears and American black bears. Shows Alaskan brown bears swimming in a stream, catching and eating salmon, fighting over fish and teaching cubs how to swim.

BUFFALO: AN ECOLOGICAL STORY (0837)

(Encyclopaedia Britannica Films, inc./1972/1 reel/14 min./sound/color/16 mm) (Grades 7-12)

Documents the buffalo's struggle for survival from the time when vast herds ranged across the American continent, through the mass slaughters of the 1800's, to the successful restoration of these animals in the 20th century. Scenes of buffalo in their natural habitat reveal their physical traits, behaviour and unpredictable temperament. Although attempts to domesticate the buffalo have failed, efforts to save them from extinction have succeeded, and, hopefully, the buffalo lesson will serve as a model in the attempt to save other endangered species.

BUILDING A KAYAK (0640) (SELF-SERVE #2-A-20, 2-A-21)

(Education Development Center in association with National Film Board of Canada/1967/2 reels/65 min./sound/color/16 mm) (Grades 4-12; adult)

It is July, and time to build a kayak. Two men assemble scraps of wood, bone, sealskin and sinews. The woman helps by cutting thongs and scraping skins. A man harpoons a fish and all stop to eat.

BUSH FIRST AID (3318)

(Toronto/Moreland-Latchford Productions/1967/2 reels/20 min./sound/color/16 mm) (Grades 4-12)

Shows how to assemble a practical first aid kit and how to use it for almost any emergency. Also shows how to treat an accident victim in the bush using only the things which are readily available.

BY MAP AND COMPASS (1314)

(Toronto/Crawley Films/1957-1961/1 reel/27 min./sound/color/16 mm) (Grades 4-12)

Mr. Wallace and his son Gary use a topographic map and a protractor compass as they enjoy a fishing and hiking trip. Includes a summary of the techniques of using a map and a compass.

BY THE SEA (0822)

(Pasadena, Calif./Arthur Barr Productions/1971/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

Shows that through the eye of the camera, the land, the sea and the sky blend into a composite visual experience and that the many facets of nature may be discovered in a single setting.

CAN THE EARTH PROVIDE? (2632)

(Montreal/National Film Board of Canada/1961/1 reel/28 min./sound/B & W/16 mm) (Grades 10-12; adult)

Surveys the world agricultural scene and the role that science might be expected to play in future world food production. Shows examples of intensive cultivation and of improvements in agricultural methods, but questions whether, even with all these measures, the earth can provide food for a growing population.

CANADA'S PRAIRIE PROVINCES (2221)

(Coronet Instructional Media/1973/1 reel/14 min./sound/color/16 mm) (Grades 4-9)

Provides a geographic introduction to the Canadian prairie provinces, including a look at the historic and ethnic backgrounds of their people, and the traditional occupations of farming, cattle raising and lumbering.

CARIBOU OF NORTHERN CANADA (0353)

(Ottawa/Department of the Environment, Canadian Wildlife Service/1971/1 reel/13 min./sound/color/16 mm) (Grades 4-12)

Examines the life and habitat of the caribou of northern Canada, including information on its feeding, migratory and behavioral characteristics.

THE CAVE COMMUNITY (0102)

(Encyclopaedia Britannica Films/1960/1 reel/13 min./sound/color/16 mm) (Grades 7-12; adult)

Illustrates how the study of plant and animal life in the relatively unchanging environment of the cave community provides biologists with important data for understanding the adaption and evolution of species.

THE CHANGING FOREST (0681)

(National Film Board of Canada/1958/1 reel/19 min./sound/color/16 mm) (Grades 7-12)

The ecology of a deciduous forest area of the type found along the southern fringes of the Laurentian Shield. Shows the forest as an integrated community of living things, both plant and animal.

CHOOSING A LEADER (0502)

(National Film Board of Canada/1957/1 reel/9 min./sound/B & W/16 mm) (Grades 7-12)

Explores the problem of how a group chooses a leader wisely. Revolves around a group of teen-agers who face the possibility of getting lost while hiking through the woods. Encourages the film audience to discuss the bases on which leaders should be chosen.

CITIES IN CRISIS - A MATTER OF SURVIVAL (0024)

(Ray Witlin and Universal Education and Visual Arts/1970/1 reel/18 min./sound/color/16 mm) (Grades 7-12)

Examines causes, effects and possible solutions to the pollution problem in the areas of air, water and land.

CLIMATE AND SEASONS (0080)

(Coronet Instructional Media/1973/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

Explores variations in the four seasons in a survey of ideas about climate and depictions of a variety of seasonal activities. With study guide.

COLD (0847) (SELF-SERVE #3-C-20)

(California/Films-West inc./1969/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Relates a child's idea of cold to basic concepts of heat energy. Discusses how cold can affect simple, everyday items, and points out the many uses of cold in the community.

COMMERCIAL FISHING (1477) (SELF-SERVE #5-D-21)

(Winnipeg/Manitoba Department of Education/1975/1 reel/15 min./sound/color/16 mm) (Grades 4-9)

This film takes viewers to Lake Winnipeg to follow the activities of commercial fishermen as the seasons change. For corresponding videotapes in the library, VR 639.209712 C64 and VR 639.209712 C64r.

THE CONIFEROUS FOREST BIOME (1450)

(Chicago/Encyclopaedia Britannica Educational Corporation/1968/1 reel/15 min./sound/color/16 mm) (Grades 4-12; adult)

Describes the conditions of plant and animal life in the northern coniferous forest, explaining how unfavorable conditions influence development. With film guide.

CONSERVATION AND BALANCE IN NATURE (3813)

(Chicago/International Film Bureau inc./1963/1 reel/18 min./sound/color/16 mm) (Grades 7-12)

Investigates balance in natural ecological systems as related to the question, what is man doing to his environment? Shows that interrelation of organisms in the food web involves a delicate balance; pictures a wide variety of animal adaptations and discusses their significance to the community balance. Explain that adaptation is measured in terms of reproductive success. Examines critically the role of man in changing the existing balance in biological communitie

CROSS COUNTRY SKI TECHNIQUE (0702)

(Quebec/Douglas Sinclair Film Productions/1973/1 reel/25 min./sound/color/16 mm) (Grades 7-12; adult)

Presents a variety of techniques for successful cross-country skiing.

CROSS COUNTRY SKIING (0195)

(Montreal/National Film Board of Canada/1970/1 reel/6 min./sound/color/16 mm) (Grades 7-12)

Portrays the interior exhiliaration and the feeling of impending flight of cross-country skiing.

A CROWDED WILDERNESS (0701)

(National Film Board of Canada/1972/1 reel/9 min./sound/color/16 mm) (Grades 10-12; adult)

Deals with the conservation of wilderness in Canada.

DAIRY FARM TODAY (2989)

(Films-West, inc./1967/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

Examines the extensive services and processes that are involved in the modern production of dairy products.

DEATH OF A LEGEND (0690) (SELF-SERVE #10-D-1, 10-D-2)

(Montreal/National Film Board of Canada/1971/2 reels/50 min./sound/color/16 mm) (Grades 7-12)

Examines the nature and plight of the wolf and relates it to the plight of other species of North America wildlife that have fallen afoul of predatory man and his technology. Footage of the wildlife of Canada's North, including the caribou, deer and moose.

THE DEER AND THE FOREST: A STORY WITHOUT WORDS (0828)

(Budapest/Hungaro Film/1968/1 reel/16 min./sound/color/16 mm) (Grades 4-12; adult)

A visual story of deer and other animals as they move through the changing seasons in the forests of Hungary. With guide affixed.

DEFENSIVE CYCLING (2734)

(Winnipeg, Manitoba/Bortnick Film Productions/1976/1 reel/16 min./sound/color/16 mm) (Grades 4-9)

Follows David, a seven-year-old beginner, and Linda, an experienced 13-year-old cyclist, as they leave their driveway, cycle through town and return home. Stresses hand signals, explains the meanings of traffic lights and signs, shows the proper way to make right and left hand turns, demonstrates correct intersection laws and procedures, covers traffic and safety rules. Emphasizes that defensive driving means looking ahead, learning how to recognize dangerous situations and avoid accidents.

DESCRIBING WHAT WE SEE (3145)

(Los Angeles/S-L Educational Film Productions/1969/1 reel/12 min./sound/color/16 mm) (Grades 4-12; adult)

Utilizes the sights and sounds of the world around us to give the student help in describing what is seen and heard. Presents two situations to give the young writer a chance to describe after the film is over. With teacher's guide affixed.

THE DESERT (3372)

(Encyclopaedia Britannica Films, inc./1962/1 reel/22 min./sound/color/16 mm) (Grades 4-12)

Discusses the desert biome, with emphasis on geological location, the cause of formation, the temperate conditions and consequent aridity, dust storms, and rains. Illustrates how various desert plants and animals adapt to the aridity of their environment. With film guide.

THE DESERT (1892)

(Pasadena, Calif./Arthur Barr Productions/1965/1 reel/10 min./sound/color/16 mm) (Grades 4-12)

An overview of desert life in southwestern North America. Notes the adaptations for survival in dry regions made by typical plants, animals and birds of the desert - cactus, creosote bush, palo verde tree, ocotillo, Joshua tree, wildflowers, the ground squirrel, kangaroo rat, lizard, rattlesnake, tortoise, roadrunner, cactus, wren, oriole and dove.

DISTRESS SIGNALS: PART 1 (3817)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-9)

Explains that fire and smoke are the most effective distress signals. Shows in detail how to construct weatherproof signal beacons.

DISTRESS SIGNALS: PART 2 (3816)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-9)

More sophisticated forms of international signals are shown that include telling rescuers number of people and the extent of any injury.

DISTRIBUTION OF PLANTS AND ANIMALS (1469)

(Encyclopaedia Britannica Films, inc./1963/1 reel/16 min./sound/color/16 mm) (Grades 10-12; adult)

Defines and illustrates the factors that determine how plants and animals are distributed throughout the world. Uses detailed distribution maps to explain how the dispersal of the species of plant or animal is limited by its rate of increase, its ability to disperse, and its ability to surmount physical and biological barriers. With guide.

DRESS FOR HEALTH (0541)

(Encyclopaedia Britannica Films/1957/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Tells how children should select clothing according to the weather, for example, woolen clothes in winter and cotton in summer. Shows how the thermometer and daily weather reports can help them to decide. Information in this film is dated, although it is still of value for educational purposes.

DRESSING FISH (3148) (SELF-SERVE #1-D-15)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-12)

Shows how to cut fillets from fish and how to "gut and gill" them for packing in ice. Efficiency and safety are stressed.

DROWNPROOFING (1520)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-12)

Shows, with detailed underwater photography, how even non-swimmers can stay afloat and travel in the water for hours.

THE EARTH IN CHANGE: THE EARTH'S CRUST (3073) (SELF-SERVE #11-A-14)

(Encyclopaedia Britannica Films/1961/1 reel/16 min./sound/color/16 mm) (Grades 4-12)

Discusses the changing land features of the earth, describing and illustrating the ways in which ice, wind and water act to wear away the surface of the earth, and how sedimentation, the action of volcanoes and earthquakes, and other forces help to build it up. With guide.

EARTH IN MOTION (2106) (SELF-SERVE #10-B-14)

(Encyclopaedia Britannica Films, inc./1936/1 reel/12 min./sound/B & W/16 mm)
(Grades 7-12; adult)

Portrays the earth as an astronomical body and discusses its relation to the sun and its motion. Presents evidence of the earth's sphericity, and its axis rotation, its revolution about the sun, and the inclination of its axis. Permits simulated observation of the earth from the stratosphere, of earths and stars in motion, and of the earth's orbit movement, explaining the causes of night and day and of seasons.

THE EARTH'S MOVEMENTS (2036)

(Chicago/Coronet Instructional Films/1967/1 reel/10 min./sound/color/16 mm)
(Grades 4-9)

Uses animation, models and live action to show four movements of the earth. Depicts revolution and rotation and explains how these factors account for day and night, time differences and the changing seasons. Illustrates the precession of the equinoxes and galactic rotation.

THE EARTH (2134)

(Chicago/Coronet Instructional Films/1960/1 reel/11 min./sound/color/16 mm)
(Grades 4-9)

Animated drawings present the most widely accepted theory of the formation of the earth and the solar system. Uses simple sketches, clear shots of various geological phenomena and laboratory demonstrations to examine the structure of the surface and interior of the earth: core, mantle, and crust, discussing the latter region in detail.

EARTHWORMS (0930)

(Universal Education and Visual Arts/1957/1 reel/11 min./sound/color/16 mm)
(Grades 4-6)

Shows the earthworm's physical adaption to underground life, their physical development and eating habits.

THE EDGE OF THE BARRENS (0539)

(National Film Board of Canada/1963/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

An ecological study of the Arctic tundra stretching across Canada between the treeline and the Arctic Ocean. Shows the tenacity of life in this wilderness where danger is constant.

EDIBLE PLANTS IN SUMMER (0261) (SELF-SERVE #1-D-14)

(Toronto/Moreland-Latchford Productions/1967/1 reel/8 min./sound/color/16 mm) (Grades 4-12)

There are few poisonous plants and the viewer will be surprised at the great abundance of palatable food that is available in the wilderness areas of North America. Film summary included.

AN EGG BECOMES A CHICK (1865)

(Coronet Instructional Films/1972/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Drawings by children and microscopic scenes aid a teacher and two students in sharing questions, ideas and information about chicken eggs from fertilization to hatching.

EMERGENCY COMPASSES (0470)

(Toronto/Moreland-Latchford Productions/1968/1 reel/12 min./sound/color/16 mm) (Grades 4-12)

Demonstrates how to determine direction by means of a watch, twigs or the stars, if you are out in the wilderness without a compass. Includes other camping tips.

THE ENDURING WILDERNESS (2988)

(National Parks Branch, Canada Department of Northern Affairs and National Resources, Ottawa/National Film Board of Canada/1963/1 reel/27 min./sound/color/16 mm) (Grades 7-12; adult)

A photographic tour of the national parks of Canada from the mountains of British Columbia to the sea swept shores of Newfoundland. Describes the purpose of Canada's park conservation program, and the unspoiled lakes and forests which result.

ENERGY AND ITS FORMS (0547) (SELF-SERVE #8-B-21)

(Coronet Instructional Films/1961/1 reel/10 min./sound/B & W/16 mm) (Grades 4-9)

Explains the basic concept and forms of energy. Stresses the way in which plants convert solar energy to food.

ENERGY AND WORK (3746) (SELF-SERVE #8-B-14)

(Encyclopaedia Britannica Films/1961/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Simple experiments and visual experiences explain that energy is neither created nor destroyed, but simply changed from one form to another. Illustrates ways in which energy can be stored and the steps to change potential energy into mechanical energy for doing work. With film guide.

THE ENERGY DILEMMA (2986)

(Toronto/adapted by Visual Education Centre/1973/1 reel/18 min./sound/color/16 mm) (Grades 7-12; adult)

Surveys the resources of energy presently being used and the possibility that they may be exhausted within a decade. Explores the possibilities of new sources for energy, including solar and tidal power.

ENERGY FROM THE SUN (3127) (SELF-SERVE #11-D-5)

(Chicago/Encyclopaedia Britannica Educational Corp./1980/1 reel/18 min./sound/color/16 mm) (Grades 7-12; adult)

An introduction to the new and complex field of solar technology. The potential importance of solar energy in an age of dwindling fossil fuel supplies is emphasized. In addition, visits to several sites in the U.S. where both solar energy research and use are in progress are undertaken. Indicates some of the problems that must be solved before solar energy can be competitive, practically and economically.

EROSION: LEVELING THE LAND (1348) (SELF-SERVE #2-D-6)

(Encyclopaedia Britannica Films, inc., in cooperation with the American Geological Institute/1964/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

Uses laboratory demonstrations and natural photography in a study of the processes of weathering, erosion and deposition of rock materials. Shows how the constant movement of rock debris from high places toward the sea tends to level the land; explains how scientists find evidence of the leveling process. With guide.

THE EVERGLADES: CONSERVING A BALANCED COMMUNITY (3014)

(Chicago/Encyclopaedia Britannica Educational Corp./1968/1 reel/11 min./sound/color/16 mm) (Grades 7-9)

Demonstrates that conservation must be considered in any plans for expanding communities. Shows how water requirements of new residential areas in Florida are endangering many species of wildlife in Everglades National Park. With film guide.

5000 MILES (3810)

(National Film Board of Canada/1965/1 reel/19 min./sound/color/16 mm)
(Grades 4-12; adult)

A travel film designed to encourage Canadians and Americans to vacation in Canada via the Trans-Canada highway, which stretches from coast to coast.

FARM ANIMALS (0536) (SELF-SERVE #3-A-24)

(Encyclopaedia Britannica Films, inc./1957/1 reel/11 min./sound/color/16 mm)
(Grades 4-6)

FARM ANIMALS IN RHYME (0687) (SELF-SERVE #7-C-17)

(Chicago/Coronet Instructional Films/1968/1 reel/11 min./sound/color/16 mm)
(Grades K-3)

Uses rhymes to survey a farm and introduce familiar farm animals, the sounds they make and the things they do.

FINDING OUT ABOUT ROCKS (0486)

(New York/United World Films/1961/1 reel/14 min./sound/color/16 mm) (Grades K-6)

Shows in step-by-step sequences how the land evolved from the great mass of rock and water that was the early planet. Illustrates how the pounding action of the surf, freezing temperatures, shifting winds and simple plants can combine with gravity to form soil.

FIRE MAKING AND SHELTERS (3345)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm)
(Grades 4-12)

Demonstrates the steps involved in building a shelter and a fire in the woods, and describes the best locations and the required materials.

FIREBUILDING AND COOKING (3562)

(Saskatoon, Saskatchewan Institute for Applied Arts and Sciences/1 reel/15 min./sound/color/16 mm) (Grades 4-12)

Illustrates the collecting of tinder, kindling and fuel. The proper method of building the cooking fire is shown. A recipe is given for making bannock, and the correct preparation is shown. An Indian method for cooking fish on a stick and a cranberry pie complete the outdoor meal.

FIRST AID ON THE SPOT (1998) (SELF-SERVE #3-B-11)

(Encyclopaedia Britannica Films, inc./1959/1 reel/11 min./sound/B & W/16 mm)
(Grades 7-12)

Discusses six common types of injuries and disabilities and the approved American Red Cross technique for handling each specified case. Includes demonstrations of caring for wounds, burns and shock, of splinting, of controlling bleeding and of administering artificial respiration using both the mouth-to-mouth method and the back pressure arm-lift. Information in this film is dated, although it is still of value for educational purposes.

FISHING AT THE STONE WEIR (0645)

(Education Development Center in association with National Film Board of Canada/ 1967/2 reels/60 min./sound/color/16 mm) (Grades 7-12; adult)

Portrays the traditional Eskimo life of the Netsilik Eskimos in the summer when the tundra is bare. Shows the family attending to the fishing as the fish move upstream, pointing out that each family member has a particular duty. Natural sounds, no narration.

FLIGHT IN WHITE (2573) (SELF-SERVE #4-B-18)

(Montreal/National Film Board of Canada/1969/1 reel/15 min./sound/color/16 mm)
(Grades 4-9)

Shows winter sports activities and winter scenery of Banff and Jasper National Parks in the Canadian Rockies.

FLOWERS AT WORK (2572) (SELF-SERVE #5-A-16)

(Encyclopaedia Britannica Films, inc./1956/1 reel/11 min./sound/color/16 mm)
(Grades 7-12; adult)

Animation and time-lapse photography describe the structure of flowers and show how they function as reproductive organs. Discusses pollination in composite flowers, self-pollination and pollination by wind and insects. Points out how man has improved commercial floriculture.

THE FOREST TENT CATERPILLAR (2550)

(Montreal/National Film Board of Canada/1955/1 reel/18 min./sound/color/16 mm)
(Grades 4-9)

Close-up camera studies illustrate the life cycle of the forest tent caterpillar and show the damage it causes annually to our deciduous forests.

THE FOREST WATCHERS (2317)

(Ottawa/Department of the Environment of Canada/1975/1 reel/25 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates how remote sensing techniques are used in order to take inventory of Canada's forest resources.

FOSSILS: FROM SITE TO MUSEUM (1999) (SELF-SERVE #10-D-9)

(Coronet Instructional Films/1971/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Describes the process of fossil formation in a strip coal mine and demonstrates how fossils are prepared for study and exhibited at the museum.

FRESHWATER WORLD (1858) (SELF-SERVE #3-D-17)

(Montreal/Fisheries and Marine Services of Canada/1974/1 reel/24 min./sound/color/16 mm) (Grades 7-12; adult)

Describes the operation of the Freshwater Institute of the Fisheries Research Board, Environment Canada.

THE FROG (2799) (SELF-SERVE #10-D-15)

(Encyclopaedia Britannica Films/1957/1 reel/11 min./sound/color/16 mm) (Grades 4-12)

Shows the complete life cycle of the frog and depicts structural characteristics.

FROSTBITE AND SNOWBLINDNESS (4001)

(Toronto/Moreland-Latchford Productions, Ltd./1968/1 reel/11 min./sound/color/16 mm) (Grades 7-12; adult)

Discusses in detail frostbite and snowblindness and covers prevention, recognition, causes and treatment of both conditions.

FUN ON THE WILD RIVER (2588)

(Washington, D.C./National Geographic Society/1970/1 reel/10 min./sound/color/16 mm) (Grades 4-9)

A family lives in touch with nature on the Salmon River in Idaho where they enjoy a change of pace in an area nearly free from pollution. Shows the Craighead family journeying down the white water Salmon River.

FUNDAMENTAL CANOEING (0361)

(Toronto/Moreland-Latchford Productions/1967/1 reel/11 min./sound/color/16 mm) (Grades 7-12)

Shows how to launch, paddle, portage, load and enter a canoe safely. Illustrat what to do if a canoe capsizes.

FUNGI (1338)

(Encyclopaedia Britannica Films, inc./1960/1 reel/15 min./sound/color/16 mm) (Grades 7-12)

Uses time-lapse photography, photomicrography and animation to show how fungi grow and how they get their food; their importance as converters of dead matter; their economic significance as agents in food processing; and in their role in causing disease in plants and animals.

FUR TRAPPER OF THE NORTH (0931)

(Ralph Bryenton and Encyclopaedia Britannica Films, inc./1951/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Portrays the life of the fur trapper in the northern wilds. Shows his summer and early autumn preparations, the beginning of trapping in late autumn, continuing through the winter and the return of spring, the break-up of ice, the end of trapping, and the distribution of the pelts. Information in this film is dated, although it is still of value for educational purposes.

GARDENS FOR EVERYONE (2783)

(Los Angeles, Calif./Educational Horizons Films/1966/1 reel/11 min./sound/color/16 mm) (Grades K-9)

Shows scenes of a natural garden in a national park, a planned garden in a city park, a community garden, a school garden, a family garden, and a child's personal garden.

GEOGRAPHY OF YOUR COMMUNITY (2375)

(Chicago/Coronet Instructional Films/1954/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

A young boy who studies his community and a map of the area discovers that the geography of the area affects its industries, farmlands, residential areas and highways.

GHOSTS OF A RIVER (2961)

(Montreal/National Film Board of Canada/1966/1 reel/20 min./sound/color/16 mm) (Grades 4-12)

Describes graphically the Columbia river as it exists now. Points out that the river is to be dammed up to form a power reservoir for British Columbia and the United States. Information in this film is dated, although it is still of value for educational purposes.

GLACIATION (2962) (SELF-SERVE #5-C-23)

(Montreal/National Film Board of Canada/1965/1 reel/11 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates how the processes which form glaciers change the landscape and affect ecology after the glacier disappears. Explains the consequences of past glaciation on populations living where a glacier has been.

GLACIER ON THE MOVE (0008)

(Encyclopaedia Britannica Educational Corp./1973/1 reel/11 min./sound/color/ (16 mm) (Grades 7-12; adult)

A study of the rhythm of glacial movement in summer and winter. Experiments show the effects of gravity, pressure and temperature on ice formation.

THE GOLDEN EAGLE - NO NATURAL ENEMY (2897)

(Shoshoni Productions/1972/1 reel/22 min./sound/color/16 mm) (Grades 7-12; adult)

Points out that the golden eagle, a symbol of virtue and courage, has decreased in number in North America to less than 10,000 due to the actions of man, since the bird has no natural enemies.

THE GRASSLANDS (2609)

(Encyclopaedia Britannica Films/1962/1 reel/17 min./sound/color/16 mm) (Grades 7-12)

Illustrates the evolution of the present-day grasslands. Offers an overview of grassland communities of the world, including the pampas of Argentina and savanna of Africa, and stresses the fact that grass is a basic source of energy. With film guide.

THE GREAT AMERICAN GOOSE EGG CO., OF CANADA LTD. (2679)

(Toronto/Reasons Associates/1971/1 reel/10 min./sound/color/16 mm) (Grades 10-12; adult)

A satire on technology and industry in which the goose egg is symbolic of our natural resources. Depicts the forward march of civilization trodding over a nature which is struggling to survive.

THE GREAT BARRIER REEF (1597)

(New York/NBC News Films in cooperation with the National Academy of Sciences/ 1970/2 reels/53 min./sound/color/16 mm) (Grades 7-12; adult)

Studies the dangers of the ecosystem of the Australian Barrier Reef. Examines the crown of thorns, a variety of starfish which eats live coral, is multiplying and threatens to destroy the reef. Discusses the role of the reef in the balance of nature.

THE GREEN CITY (1152)

(Finley Stuart, inc./1963/1 reel/23 min./sound/color/16 mm) (Grades 7-12; adult)

Shows how green and open space is being gobbled up by the urbanizing process. Demonstrates how development can take place without excessive destruction. Describes man's changing environment and foretells the consequences if this change is permitted to take place without careful planning.

GRIZZLY! (0538) (SELF-SERVE #10-E-6, 10-E-7)

(Washington/National Geographic Society/1967/2 reels/52 min./sound/color/16 mm) (Grades 4-12; adult)

A study of the habits and habitat of the North American grizzly bear, using electronic equipment.

GROUP HUNTING ON THE SPRING ICE (6038)

(Cambridge, Mass./Education Development Center in association with National Film Board of Canada/1968/3 reels/96 min./sound/color/16 mm) (Grades 7-12; adult)

Portrays the traditional Eskimo life of the Netsilik Eskimos in late June when much of the land is bare. Shows a man making a bow from bone and sinews and a woman doing her chores. Shows men going out on the sea ice to watch for seals. Without narration.

THE GROWTH OF PLANTS (2729)

(Encyclopaedia Britannica Films/1962/1 reel/20 min./sound/color/16 mm) (Grades 7-12)

Uses time-lapse photography and animation to show how plant cell division, elongation and differentiation assure both stem and root growth. Illustrates the xylem and phloem-making function of the cambium. Presents experiments dealing with the effect of hormones on cell division and elongation, and the effects of certain stimuli - gravity and light - on plant growth.

GYMNOSPERMS (1242)

(Encyclopaedia Britannica Films/1961/1 reel/16 min./sound/color/16 mm) (Grades 7-12; adult)

Explains that gymnosperms were the first of the seed plants and that the most common gymnosperms today are the conifers, of which pines, firs, spruces and redwoods are familiar examples. Uses animation and time-lapse photography in tracing the life cycle of the pine. With teacher's guide.

HIGH ARCTIC: LIFE ON THE LAND (1133) (SELF-SERVE #2-D-12)

(Montreal/National Film Board of Canada/1959/1 reel/22 min./sound/color/16 mm) (Grades 4-9)

An ecological study of plant and animal life on the Queen Elizabeth Islands in the Canadian Arctic. Shows the musk-ox, lemming, Arctic hare, poppies, fire weed and other forms of plant life as part of an evolution that began in pre-history and continues today.

HOW ANIMALS HELP US (1127)

(Lawrence, Kan./Centron Corporation, inc./1956/1 reel/11 min./sound/color/16 mm) (Grades K-9)

Discusses the many ways in which animals are useful to man.

HOW BIRDS HELP US (1421) (SELF-SERVE #10-D-7)

(Chicago/Coronet Instructional Films/1957/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

A young boy observes that birds help us by providing us with food, destroying harmful insects and rodents, eating weed seeds, and giving us pleasure with their bright colors and songs.

HOW NATURE PROTECTS ANIMALS (2645)

(Chicago/Encyclopaedia Britannica Films, inc./1959/1 reel/12 min./sound/color/16 mm) (Grades 4-9)

Examines the phenomena of defensive adaptation of various animals to different environments. Portrays representative types in their natural habitats and illustrates different kinds of protection, including speed, mimicry, coloration, armour and secluded homes.

HOW PLANTS REPRODUCE (2033)

(Lawrence, Kan./Centron Corporation/1957/1 reel/11 min./sound/color/16 mm) (Grades 4-12)

Combines photography and animation to visualize and explain the main parts of a plant and its flower, how a typical flower is pollinated and fertilized and how the plant grows new seeds to keep the life cycle of the plant unbroken.

HOW TO BUILD AN IGLOO (2760)

(Montreal/National Film Board of Canada/1949/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

A demonstration of igloo-building in Canada's Far North, showing how the site is selected and how blocks of snow are used to make a snug shelter in only an hour and a half. As the camera follows each stage, the commentary explains the process.

ICE (1954)

(New York/Arco Films/1957/1 reel/13 min./sound/B & W/16 mm) (Grades 4-9)

Explains how ice is produced, why an ice cube bulges at the top, and how to lift an ice cube out of a glass of water without touching it. Explains that ice expands while freezing and shows how to cut through an ice cube and still have it whole.

THE IMPORTANCE OF RIVERS (1613)

(Hollywood, Calif./AV-ED Films/1959/1 reel/12 min./sound/color/16 mm) (Grades 4-12)

Discusses the importance of rivers, explaining how they have helped to shape the surface of the earth, to drain the land of surplus water, to supply water for drinking and for industrial and municipal use, to serve as boundaries, to provide transportation, to supply food and power, to modify the climate, to help clean the air, to build up the land, and to sustain wildlife.

IN ONE DAY (2959) (SELF-SERVE #5-A-22)

(Ottawa/Canada, Department of Transport/1967/1 reel/18 min./sound/color/16 mm) (Grades 7-12)

Describes how Canada's Meteorological Service functions, including the services that it provides to Canadians in all walks of life.

INSECT COLLECTING (3046)

(Los Angeles/Pat Dowling Pictures/1960/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

Points out that collecting specimens is an important part of any study of insect life. Shows common and some uncommon terrestial and aquatic insects in close detail and tells where to look and how to capture specimens. Describes methods of collecting which include netting, beating of host plants, night collecting, investigating dead parts of trees, using the Berlese funnel to procure microscopic specimens, and aquatic methods.

INSECT FOODS (2371)

(Los Angeles/Pat Dowling Pictures/1959/1 reel/14 min./sound/color/16 mm) (Grades 7-12; adult)

Shows what and how insects eat, explaining the importance of the feeding habits of such insects as the katydid, grain beetle, polyphemus moth, termite, flea, praying mantis, and antlion. Explains that every plant and animal provides food for some kind of insect. Presents close-up views of larval, pupal and adult stages of life as they apply to feeding.

INSECTS (1302)

(Chicago/Encyclopaedia Britannica Films, inc./1 reel/10 min./sound/color/16 mm) (Grades 4-12)

Enumerates characteristics of insects. Shows reproductive and growth processes, structural characteristics and eating habits typical of each of the five classes within the insect world. Describes the constructive and destructive habits of a variety of insects and the natural and man-made controls which prevent unlimited insect multiplication.

INTRODUCING INSECTS (BUTTERFLIES, BEETLES AND BUGS) (2238)

(Ottawa/Canada Department of Agriculture/1961/1 reel/17 min./sound/color/16 mm) (Grades 4-12)

Identifies the characteristics of the Arthropods and makes a comparison of the vertebrate animals. Shows examples of the main groups of insects and gives the key anatomical characteristics used for identification and classification. Uses microcinematography, slow-motion, and time-lapse to reveal insect development. Includes views of the flea, the Goliath beetle, the praying mantis, and bees and ants; shows the moulting of a plant bug and the emergence of a moth.

INTERVIEW WITH GARRETT HARDIN (3561)

(King Screen Productions in conjunction with Biological Science Curriculum Study/1972/1 reel/11 min./sound/color/16 mm) (Grades 7-12)

Garrett Hardin theorizes on some of the most complex social issues confronting us today, such as birth control, world health, freedom versus population, crowd mentality, women's rights and how technology can be turned toward the solution rather than the aggravation of our problems.

ISLAND OF DREAMS: A FABLE FOR OUR TIME (2545)

(Texture Films/1972/1 reel/10 min./sound/color/16 mm) (Grades 4-12; adult)

Story of a factory worker who attempts to escape from the technological complexities of modern society, only to find that the improvements that he makes in his idyllic new island home soon grow as complex and sophisticated as the ones he left behind.

JACKY VISITS THE ZOO (2304)

(Montreal/National Film Board of Canada/1962/1 reel/12 min./sound/color/16 mm) (Grades 4-6)

A story about a young boy on a tour of the zoo, showing him as he looks at the lion, giraffe, elephant, rhinoceros, camel, and zebra. Includes close-up views of birds and other animals. Illustrates what not to do at the zoo. Photographed at the Granby Zoological Garden in Quebec.

JIGGING FOR LAKE TROUT (0639)

(Education Development Center in association with the National Film Board of Canada/1967/1 reel/32 min./sound/color/16 mm) (Grades 7-12; adult)

More wildlife returns as winter draws to an end. The family is now living in a karmak. The man chips a hole on the lake ice and jigs the line to attract the fish. His wife joins him, and both remain at the hole through a severe blizzard.

THE JOYS OF WINTER (3034)

(Montreal/National Film Board of Canada/1962/1 reel/15 min./sound/B & W/16 mm) (Grades 4-9)

Shows how Canadians adjust to their long snowbound season. Pictures them as they enjoy skating, skiing and tobogganing and as they struggle against winter storms.

JUST BEYOND THE CHALKBOARD (1882)

(De Kalb/Northern Illinois University, Media Distribution Dept./1967/1 reel/ 25 min./sound/color/16 mm) (Professional Development)

Observes several elementary grade classes during field trips for which they were prepared in the classroom. Emphasizes the importance of providing followup activities after an outdoor trip.

KNOWING IT SURVIVES US (2030)

(Steve Rosen/Xerox Films/1971/1 reel/29 min./sound/color/16 mm) (Grades 10-12; adult)

Assesses the status of DDT today and examines the harmful effects this agricultural pesticide has had on man and his environment. In recorded interviews, scientists in various fields discuss experiments which show how excessive use of DDT is contaminating our food and water, poisoning fish, birds and animals and placing man, himself, on the endangered species list.

LAKES: AGING AND POLLUTION (1501) (SELF-SERVE #11-A-3)

(Centron Educational Films/1971/1 reel/14 min./sound/color/16 mm) (Grades 4-9)

Examines the organisms that inhabit lakes, explains the traces of the aging process of lakes and emphasizes man's role in speeding the aging process. Features underwater photography.

LEARN TO SKI (3110) (SELF-SERVE #4-D-17)

(Ottawa/Canada Department of National Health and Welfare/1964/1 reel/15 min./sound/color/16 mm) (Grades 7-12)

Shows the best techniques, recommended by the Canadian Ski Instructors' Alliance and the Canadian Amateur Ski Association. Demonstrated in action and, where necessary, in slow motion, the basic form and movements in skiing from the novice to expert levels.

LEARNING ABOUT SEEDS (1983)

(Chicago/Encyclopaedia Britannica Films, inc.,/1960/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Uses time-lapse photography, close-ups and simple experiments to show the beginnings of plant life in seeds, the conditions required for seeds to sprout and grow, and the ways in which seeds are scattered over the earth as part of nature's plan for the survival of all living things.

LEARNING WITH YOUR SENSES (2881)

(Chicago/Coronet Instructional Films/1968/1 reel/11 min./sound/color/16 mm) (Grades K-3)

Follows the activities of a boy and his family to point out how each of the five senses provides different information about the world around us.

LET'S LOOK AT WEEDS (2899)

(Montreal/National Film Board of Canada/1959/1 reel/19 min./sound/color/16 mm) (Grades 4-9)

An ecological study of the relationship between weeds and crop plants, describing the life history of specific weeds with reference to their susceptibility to cultural and chemical control. Shows new developments in chemical weed killers. Information in this film is dated, although it is still of value for educational purposes.

LIFE CYCLE OF A PLANT (1708)

(London/G.B. Instructional Ltd.,/1935/1 reel/10 min./sound/B & W/16 mm) (Grades 4-12)

Traces plant growth from seed to mature plant to new seed. Through time-lapse photography, shows the processes of germination, growth above and below the soil, seed development, pollination and fertilization. Information in this film is dated, although it is still of value for educational purposes.

LIFE IN A CUBIC FOOT OF AIR (1428)

(Chicago/Coronet Instructional Films/1958/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Explores the life in a cubic foot of air taken from the air around us, examining various living forms such as yeast plants, molds, bacteria, amoeba, and pollen grains. Uses microscopic views of these plants and animals to show something of their structure and life processes. Describes the composition of air and the non-living matter in it.

LIFE IN THE SEA (1761)

(Encyclopaedia Britannica Films/1957/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Divides sea life into three general groups - the plankton, the bottom dwellers, and the free-swimming animals. Describes the inter-relationship of plants and animals under the surface of the sea in providing a chain of food and maintaining a delicate balance of life.

LIFE IN THE WOODLOT (0202)

(Montreal/National Film Board of Canada/1960/1 reel/16 min./sound/color/16 mm) (Grades 4-9)

Describes the natural law of the woods pointing out a pyramid of life in which the lower orders sustain and support the higher orders. Discusses the plant world in which a seedling falls by chance on a favored spot where it grows and presses its advantage for a place in the sun, while others, less fortunate, die before their time.

LIFE ON A DEAD TREE (2857)

(Los Angeles/Film Associates of California/1957/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Two boys discover an old dead tree in the woods, and as they explore it find that it is the home of many different plants and animals, including lizards, beetles, crickets, slugs, fungus plants, tree salamanders, ants, gopher snakes and other living things.

THE LIVING BIRD (1679) (SELF-SERVE #3-D-9)

(Milwaukee/Murl Deusing Film Productions/1954/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

Discusses the biology of the bird, describing its metabolism, its senses of sight, smell, and hearing, its courtship, nest-building, and incubation, and its ability to find food and fly. Describes the parasitic behaviour of the cowbird.

MAMMALS AND THEIR CHARACTERISTICS (3371)

(Chicago/Coronet Instructional Films/1966/1 reel/11 min./sound/color/16 mm)
(Grades 4-12)

Discusses mammals and their characteristics. Illustrates the great diversity of mammals as seen in representative members of the major groups - carnivores, rodents, ungulates, marsupials and primates.

MAN AND HIS ENVIRONMENT II: FOOD FROM THE RAINFOREST (3425)

(Las Vegas/Wayne Mitchell/1971/1 reel/18 min./sound/color/16 mm) (Grades 4-12)

A study of the life style and economy of the Choco Indians of Central and South America. Shows how the Indians supply most of their own food by hunting, fishing, gathering and simple agriculture.

MAN AND HIS RESOURCES (2654)

(Montreal/National Film Board of Canada/1960/1 reel/28 min./sound/B & W/16 mm)
(Grades 10-12; adult)

What is the responsibility of the "haves" toward the "have nots"? This film examines the growing determination of the poor of the world not to remain poor, and the great 20th-century concept of shared skills and mutual aid.

MAPS - WHERE AM I? (2870)

(Hollywood, Calif./Charles Cahill and Associates, inc./1963/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Discusses maps and explains their use and how to read them.

MAPS SHOW OUR EARTH (2260)

(Coronet Instructional Media/1973/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

Teaches children how colors and key symbols are used on maps, shows how maps can be used together, and tells how they relate to a globe.

THE MEANING OF CONSERVATION (2859) (SELF-SERVE #9-C-13)

(Chicago/Coronet Instructional Films/1954/1 reel/11 min./sound/color/16 mm)
(Grades 4-9)

Explains the two basic ideas in the conservation programs: the preservation of what we have and the rebuilding of what has been lost. Shows what is being done to maintain the resources and natural beauty of the United States by limiting hunting and fishing, building dams to control floods, planting trees, establishing national and state parks, and developing new farming methods. Animation and live action.

MILK: FROM FARM TO YOU (2259)

(Encyclopaedia Britannica Educational Corp./1973/1 reel/13 min./sound/color/16 mm) (Grades 4-6)

Traces the steps involved in the production of milk, from the milking of the cows, to the creamery and to the home, describing the tasks of various dairy workers and explaining the processes of homogenization and pasteurization. Describes the production of cheese and ice cream.

MOUNTAINS ON THE MOVE (2010)

(Thomas Craven Film Corporation/1956/1 reel/11 min./sound/color/16 mm) (Grades 4-12)

Explains in detail what a mountain is; how it originates, grows, survives; its changes and influences on organic and inorganic matter in and about it. Investigates different kinds of mountains, the shapes and reasons for these, their substance and character. Shows that mountains provide many clues regarding the earth's growth and development in geologic time.

THE MOUNTAINS (2011)

(Arthur Barr Productions/1970/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

Live action photography and graphics show mountain formations and the effects of glacial erosion. Close-up photography pictures cascading streams and flowered meadows, and the plants and animals found in forests, rock slides, slopes and other mountain habitats.

OISE - POLLUTING THE ENVIRONMENT (1459)

(Chicago/Encyclopaedia Britannica Educational Corp./1971/1 reel/15 min./sound/color/16 mm) (Grades 4-12; adult)

A study of noise pollution as exemplified by the problems emanating from traffic noises and the noise of airplanes in residential areas.

ORTH AMERICA: ITS COASTLINES (0254)

(Coronet Instructional Films/1972/1 reel/14 min./sound/color/16 mm) (Grades 4-9)

Traces the historic and economic roles of coastlines, and shows the different coastlines, how they form, and how they slowly change.

ORTH AMERICA: ITS PLAINS AND PLATEAUS (0295)

(Coronet Instructional Films/1972/1 reel/16 min./sound/color/16 mm) (Grades 4-9)

Shows the characteristics and location of major plains and plateaus of North America, and discusses some of the ways in which they have affected man's use of the land.

NORTH AMERICA: ITS RIVERS (0296)

(Coronet Instructional Films/1972/1 reel/14 min./sound/color/16 mm) (Grades 4-9)

Explores the distinctive features of the major rivers of the continent and discusses their contributions to the farming, recreation, transportation and hydroelectric power of North America.

NORTH SHORE (1571)

(National Film Board of Canada/1949/1 reel/21 min./sound/B & W/16 mm) (Grades 7-

A picture of life on the barren north shore of the St. Lawrence River, and of the changes taking place in this area as its resources are tapped. Explains that after four centuries the land north of the river remains harsh and unwelcoming, the home of fishermen and trappers, miners and lumbermen. Shows the struggle for existence against hostile elements and the signs of a new era with the introduction of powerful machines in the lumber camps, the building of a new hospital, the growth of towns around mills and factories in the wilderness, and the arrival by air of equipment for the iron mines. Information in this film is dated, although it is still of value for educational purposes.

THE OCEAN OF AIR (0359)

(United World Films, inc./1960/1 reel/13 min./sound/color/16 mm) (Grades 4-9)

Uses live action and animation to explain the basic principles underlying air weight, air pressure and composition of air. Shows how air is important in daily activities and in protecting us as well as being used above and below the ocean.

OCEAN TIDES: BAY OF FUNDY (1368)

(William M. Farlow/1956/1 reel/14 min./sound/color/16 mm) (Grades 4-12; adult)

Presents scenes of the Bay of Fundy at high and low tides, showing how the tides affect the work of the fishermen, dock and repairmen and seamen. Explains what causes the tides and how the tidal range is determined by the positions of the moon and sun. Shows tidal pressure causing the rapids of the St. John River to reverse their direction. Includes animation and ti
lapse photography and charts furnished by the Canadian Hydrographic Service.

OCTOPUS HUNT (0198)

(Montreal/National Film Board of Canada/1966/1 reel/17 min./sound/color/16 mm) (Grades 7-12; adult)

A voyage down to the green depths of the Pacific Ocean, into the mysterious domain of the deep-sea diver and the marine creatures that are his quarry. The film is about a zoological expedition to capture octopus and wolf eel specimens for the Vancouver Aquarium. The underwater action is described by the divers themselves.

ONE MAN'S GARDEN (0116) (SELF-SERVE #5-B-19)

(National Film Board of Canada/1974/1 reel/21 min./sound/color/16 mm) (Grades 7-12

Presents an allegorical look at waste in society.

ORIENTEERING (0200)

(Stockholm/Silva Industries/1968/1 reel/10 min./sound/color/16 mm) (Grades 7-12; adult)

Explains the sport of orienteering in which contestants must travel a course as quickly as possible, choosing the routes by map and compass.

THE ORIGINS OF WEATHER (2980) (SELF-SERVE #3-A-2)

(Ottawa/National Film Board of Canada/1963/1 reel/13 min./sound/color/16 mm) (Grades 4-12)

This program illustrates, from the vantage of off-the-earth observation, the factors that produce the climate we know. Animation illustrates the earth's dynamic heat exchange - the effect of the sun's heat, the movement of air masses. Resulting weather is then shown in actuality.

OUR CROWDED ENVIRONMENT (0829)

(Encyclopaedia Britannica Educational Corp./1968/1 reel/11 min./sound/color/16 mm) (Grades 10-12; adult)

Discusses the problems that have resulted from the population explosion of the 20th century, including housing and food shortages, poverty, pollution, industrial waste, and exploitation of natural resources.

OUR EARTH (1382)

(Chicago/Cenco Educational Films/1962/1 reel/12 min./sound/color/16 mm) (Grades 4-6)

Discusses land, water and air as important parts of the earth; illustrates what scientists believe the inside of the earth to be like, and the kinds of rocks that make up the earth's crust.

OUTDOOR COOKING IN WINTER (0260)

(Toronto/Moreland-Latchford Productions/1968/1 reel/11 min./sound/color/16 mm) (Grades 7-12)

Preparing a "kitchen area" in a winter wilderness camp is described in detail.

PADDLE AND PORTAGE: THE ART OF CANOEING (1747)

(Dan Gibson Productions/1966/1 reel/12 min./sound/color/16 mm) (Grades 10-12)

Features a paddleman with 35 years of experience demonstrating the art of canoeing from basic strokes to advanced techniques. Includes demonstrations on canoe rescue and water safety.

PADDLE TO THE SEA (1236)

(Montreal/National Film Board of Canada/1973/1 reel/28 min./sound/color/16 mm) (Grades 4-12; adult)

PARADISE LOST (0305) (SELF-SERVE #3-A-5)

(Montreal/National Film Board of Canada/1970/1 reel/4 min./sound/color/16 mm) (Grades 4-9)

Uses animation without narration to describe the harmony of nature and its creatures, and to show their slow death with the pollution of the atmosphere.

PARTNERSHIPS AMONG PLANTS AND ANIMALS (2677)

(Coronet Instructional Films/1959/1 reel/10 min./sound/color/16 mm) (Grades 4-9)

Explores three types of plant and animal partnerships - those between animals, those between plants and those between plants and animals. Shows in their natural settings such partnerships as that of the ant and the aphid, the hermit crab and bryozoa, algae and fungi in lichen, red clover and nitrogen-producing bacteria, and red clover and the bumble bee.

PEOPLE BY THE BILLIONS (2633)

(Montreal/National Film Board of Canada/1961/1 reel/28 min./sound/B & W/16 mm) (Grades 10-12; adult)

Examines the implications for the future of a greatly accelerated birth rate and a declining death rate, pointing out the problems which result from overpopulation in a world of limited resources. Shows views of Asia, Africa, Latin America, Europe and North America to point out the crowded, congested state in which a large part of humanity already lives.

PEOPLE OF THE SEAL: ESKIMOS SUMMER (0101)

(London/British Broadcasting Corp. and National Film Board of Canada/1971/ 2 reels/52 min./sound/color/16 mm) (Grades 7-12; adult)

An examination of the lives of the Netsilik Eskimos of the Canadian Arctic, their work and play, and the ways in which they cope with the climate of the north.

PEOPLE OF THE SEAL: ESKIMO WINTER (0371)

(London/British Broadcasting Corp. and National Film Board of Canada/1971/ 2 reels/52 min./sound/color/16 mm) (Grades 7-12; adult)

An examination of the lives of the Netsilik Eskimos of the Canadian Arctic, their work and play, and the ways in which they cope with the climate of the north.

PHOTOSYNTHESIS (2705)

(Chicago/Encyclopaedia Britannica Educational Corp./1967/1 reel/24 min./sound/ color/16 mm) (Grades 10-12; adult)

Explains how green plants transform light energy into food by the process of photosynthesis. Uses laboratory demonstrations to show how scientists study this process. With film guide.

THE PHYSICAL ENVIRONMENT (3018)

(Encyclopaedia Britannica Films/1963/1 reel/11 min./sound/color/16 mm) (Grades 10-12; adult)

Shows ways in which organisms are adapted to the conditions of their physical, or non-living, environment. Demonstrates how various conditions of the physical environment can be measured. Gives examples of specific adaptations by organisms to particular physical factors in their environments. With film guide.

PLANKTON AND THE OPEN SEA (1911)

(Encyclopaedia Britannica Films, inc./1962/1 reel/19 min./sound/color/16 mm) (Grades 10-12; adult)

Photomicrography and laboratory experiments show the dependence of plankton upon the surrounding sea water and importance of the minute plankton organism to marine food chains. Illustrates typical forms of plankton and explains how they are classified. With guide.

PLANT MOTIONS: ROOTS, STEMS AND LEAVES (1534)

(Chicago/Encyclopaedia Britannica Films/1958/1 reel/11 min./sound/color/16 mm) (Grades 4-12)

Uses time-lapse photography to show the basic motions of growing plants, and a series of classic experiments to show the response of the stems, leaves, tendrils and roots of growing plants to light and gravity.

PLANT TRAPS: INSECT CATCHERS OF THE BOG JUNGLE (1293) (SELF-SERVE #3-C-10)

(William M. Harlow/1954/1 reel/10 min./sound/B & W/16 mm) (Grades 7-12; adult)

A study of the pitcher plant, the sundew, and the Venus fly-trap - three insect devouring plants which are found in poorly drained ponds. Time-lapse photography shows the operation of their trapping mechanism.

PLANTS ARE DIFFERENT AND ALIKE (1509)

(Coronet Instructional Films/1967/1 reel/11 min./sound/B & W/16 mm) (Grades K-9)

Two children in a nursery learn that plants have similar needs but differ in physical appearance and characteristics or usefulness to man, and in the ways in which they obtain food.

PLASTIC TARPAULIN LEAN-TO (3588)

(Saskatoon/Audio Visual Centre, Saskatchewan Institute of Applied Arts and Sciences and Saskatchewan Department of Education/1 reel/10 min./sound/color/16 mm) (Grades 7-12)

Shows how to construct a simple shelter using materials found at the shelter site and a lightweight plastic tarpaulin.

PLEA FOR THE WANDERER (1020)

(Ottawa/Fisheries and Marine Service of Canada/1975/1 reel/19 min./sound/color/16 mm) (Grades K-12)

Follows the life cycles of the east and west coast salmon, revealing both the perils of nature and the threats posed by man.

POINT PELEE - NATURE SANCTUARY (1483)

(Montreal/National Parks Branch, Department of Resources and Developments/1952/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

A pictorial view of Point Pelee National Park with emphasis on the many different species of birds, butterflies, and insects, and examples of wild flowers and shrubs found in the area. Shows the scarlet tanager, Baltimore oriole, bald eagle, prickly pear cactus, aromatic sumac, orange milkwood, etc.

POLLUTION IS A MATTER OF CHOICE (1443)

(NBC News/Educational Enterprises/1970/2 reels/53 min./sound/color/16 mm) (Grades 7-12; adult)

Examines the environmental dilemma of modern man who has it in his power to preserve or ruin his environment. Uses the Everglades and Machiasport, Maine, as microcosms of the society, to illustrate man's predicament of wanting what technology creates, yet being destroyed by its wastes.

POLLUTION: LAND, WATER, AIR, NOISE (0976)

(Hollywood, Calif./Academy Films/1970/1 reel/17 min./sound/color/16 mm) (Grades 7-12)

Depicts land, air, water and noise pollution. Shows factories, oil spills, garbage dumps, forest fires and the losing of land to highway construction as examples and discusses some of the solutions to these ever-increasing problems.

THE POND (0394)

(Ottawa/Campbell Productions and Crawley Films/1961/1 reel/17 min./sound/color/16 mm) (Grades 10-12; adult)

Examines the total ecology of the pond habitat, an environment containing sunlight, minerals and permanent water of relatively constant temperature. Outstanding close-up photography observes the life forms above and below the water surface, and their interrelationships. Synchronized natural sound.

POPULATION ECOLOGY (2479)

(Encyclopaedia Britannica Films, inc./1963/1 reel/19 min./sound/color/16 mm) (Grades 10-12)

Examines factors which limit the growth of plant and animal populations in their natural environments. Explains how man's success in controlling his environment has affected the growth of rate of the human population and considers problems related to population explosion. With film guide.

PROBLEMS OF CONSERVATION: AIR (2195)

(Encyclopaedia Britannica Educational Corp./1968/1 reel/15 min./sound/color/16 mm) (Grades 7-12; adult)

Studies the adverse effects of air pollution on health and property when wastes are allowed to permeate the air freely. Shows steps which are being taken to reduce air pollution through the use of technological legislative controls and specifies the percentages of various gases that compose the troposphere.

PROBLEMS OF CONSERVATION: FOREST AND RANGE (3010)

(Encyclopaedia Britannica Educational Corp./1969/1 reel/14 min./sound/color/16 mm) (Grades 7-12; adult)

Reveals the great importance of forest and range to man's existence on earth. Introduces the scientific principle of multiple use for protection and management of forest and range lands, and emphasizes that the encroachment of a growing world population poses a serious problem of conservation.

PROBLEMS OF CONSERVATION: WATER (2172)

(Encyclopaedia Britannica Educational Corp./1969/1 reel/16 min./sound/color/16 mm) (Grades 7-12; adult)

Describes communities and localities which have water problems, and shows the pollution of the Great Lakes.

PROPER SUMMER BUSH CLOTHING (0280) (SELF-SERVE #1-D-16)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-12)

Two boys head off on a fishing trip, one wearing correct clothing, and the other, ordinary light summer weight slacks and shirt. Proper clothing is essential to one's comfort and well-being when camping out.

RAINFOREST FAMILY (3288)

(Las Vegas/Wayne Mitchell/1971/1 reel/17 min./sound/color/16 mm) (Grades 4-12)

Describes the lifestyle of the Choco Indians of Central and South America, noting that they are typical of hunting-gathering societies in tropical forests.

RAINSHOWER (0534)

(Dimension Films/1965/1 reel/15 min./sound/color/16 mm) (Grades K-6)

Various detailed close-ups of people and things in the rain. Explains that rain is a source of the water which we use and that it affects plants and other living things as well as people working in the community.

THE REALITIES OF RECYCLING (0993)

(Washington, D.C./U.S. Environment Protection Agency/1971/1 reel/38 min./sound/color/16 mm) (Grades 7-12; adult)

Details the problems and potentials of recycling. Describes existing markets for glass, aluminum, steel cans, paper and old car hulks. Tells of new recycling technology for the future.

THE RIVER: A FIRST FILM (2433)

(Santa Monica, Calif./Film Associates/1969/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

Describes how rivers are formed and how they are used by the cities along their banks. With study guide.

THE ROBIN (1686)

(A & F Producers/1 reel/9 min./sound/color/16 mm) (Grades 4-6)

Examines the annual cycle of robins, building nests and raising a family. Compares robins to the thrush family.

ROBIN REDBREAST (2731)

(Encyclopaedia Britannica Films, inc./1957/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

The story of a robin family from the time the parents build their nest until the baby robins are old enough to take care of themselves.

ROCKS AND MINERALS: HOW WE IDENTIFY THEM (0816)

(Coronet Instructional Films/1971/1 reel/14 min./sound/color/16 mm) (Grades 4-9)

Shows how common rocks and minerals can be identified by color, texture, hardness, streak and other standard procedures.

ROCKS THAT FORM ON THE EARTH'S SURFACE (0096)

(Encyclopaedia Britannica Films/1964/1 reel/13 min./sound/color/16 mm) (Grades 4-9)

Investigates sedimentary rocks to discover their origin, composition, and how they are formed. Shows how sediments are produced, transported, accumulated and hardened by processes which can be observed on land and in shallow water.

ROOT DEVELOPMENT (1674) (SELF-SERVE #5-C-10)

(London/G.B. Instructional/1935/1 reel/9 min./sound/B & W/16 mm) (Grades 10-12; adult)

Through microphotography speeded up 30,000 times, reveals details of root structure and growth. Animated diagrams show moisture absorption. Demonstrates the actions of the roots and the sensitivity of the root tip. American version of the motion picture released in England entitled Plant Life: Roots.

ROOTS OF PLANTS (2831) (SELF-SERVE #9-C-25)

(Encyclopaedia Britannica Films/1957/1 reel/10 min./sound/color/16 mm) (Grades 7-12; adult)

Describes different kinds of roots and explains how they hold plants in place and absorb food elements from the soil. Time-lapse photography, cinemicrography, animated drawings and laboratory experiments demonstrate root growth, work of root hairs and osmosis.

SAY GOODBYE (3133) (SELF-SERVE #3-A-14, 3-A-15)

(Los Angeles, Calif./Wolper Productions/1970/2 reels/50 min./sound/color/16 mm) (Grades 10-12)

Examines man's careless arrogance toward the delicate balance of his relationship to the wildlife on earth and shows the necessity of sharing life with the wild creatures. This film should not be shown to less than mature audiences without prior evaluation by the teacher. With study guide.

THE SEA (1912)

(Encyclopaedia Britannica Films, inc./1962/1 reel/27 min./sound/color/16 mm) (Grades 4-12; adult)

Depicts interrelationships between living things in the sea, their dependence on each other and on the varying conditions of the marine environment. Illustrates basic concepts of marine ecology, such as the evolution of life and the predation and reproduction of marine life. With film guide.

SEASONAL CHANGES IN PLANTS (1652)

(Lawrence, Kan./Centron Corporation, inc./1958/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Illustrates and explains the various changes that take place in a plant through the cycle of the seasons, using typical examples of annuals, biennials and perennials.

SEED DISPERSAL (1440)

(Encyclopaedia Britannica Educational Corp./1971/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Describes various natural methods by which seeds of uncultivated plants are dispersed. Uses time-lapse photography to show the varied propagation techniques of plants. With study guide.

SEED GERMINATION (1913)

(Encyclopaedia Britannica Films, inc./1960/1 reel/14 min./sound/color/16 mm) (Grades 7-12)

Time-lapse photography demonstrates a wide variety of experiments with germinating seeds. Explains that seed germination is one of the key phenomena of the plant world, and discusses the practical significance of seed and grain plants. With film guide.

SHELTER CONSTRUCTION IN WINTER (3171) (SELF-SERVE #1-D-22)

(Toronto/Moreland-Latchford Productions/1968/1 reel/13 min./sound/color/16 mm) (Grades 7-12)

Explains that comfortable shelters can be constructed easily, even during winter's cold conditions. Shows some of the methods used to build comfortable shelters. With film summary.

SHELTER CONSTRUCTION: PLASTIC TARPAULIN AND CANOE (3579)

(Saskatoon/Audio-Visual Centre, Saskatchewan Institute of Applied Arts and Sciences/1 reel/8 min./sound/color/16 mm) (Grades 7-12)

Shows a method of constructing a shelter using a canoe, a plastic tarpaulin and materials found in the environment.

SIMPLE ORGANISMS: ALGAE AND FUNGI (3907) (SELF-SERVE #11-D-3)

(Chicago/Coronet Instructional Media/1979/1 reel/13 min./sound/color/16 mm) (Grades 7-12; adult)

Various types of algae and fungi from microscopic single-celled representatives to the complex, visible ones, are examined and explored in their natural habitats. With guide.

SIMPLE PLANTS: THE ALGAE (2233)

(Encyclopaedia Britannica Films/1962/1 reel/17 min./sound/color/16 mm) (Grades 10-12; adult)

Traces the evolutionary development of algae in terms of structure and reproductive mechanisms. Shows typical forms of algae as they are adapted to various habitats, and explains the ecological role of algae in different environments. Photomicrography reveals a variety of reproductive processes. With study guide.

SKI! (1161)

(Ottawa/Canada Department of National Health and Welfare/1964/1 reel/15 min./sound/color/16 mm) (Grades 4-12)

Follows a family of four on a typical ski outing in the mountains of Canada in order to show the pleasures of skiing, regardless of the stage of learning.

SKI THE OUTER LIMITS (1657)

(Continental Air Lines/1968/1 reel/28 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates the essential mechanics of skiing. Depicts the inner limits of the sport - the discipline which must be learned before the skier has the capability for freedom of expression.

SKIING: BEGINNING MOVEMENTS (2150)

(Boulder, Colo./Spencer Nelson Film Productions/1965/1 reel/11 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates beginning techniques of skiing, including falling properly, getting up, turning, walking, climbing, straight running and an introduction to the snowplow.

THE SLOW GUILLOTINE (1713)

(Los Angeles/KNBC-TV/1970/2 reels/53 min./sound/color/16 mm) (Grades 7-12; adult)

Focuses on Los Angeles and its environs to create awareness and to spur action on the problem of air pollution and its danger to the whole country.

SMOKE AND WEATHER (3061)

(Ottawa/Forestry Branch of Department of Northern Affairs and Natural Resources/ 1958/1 reel/22 min./sound/color/16 mm) (Grades 4-12)

Shows how a lookout man is trained to detect and report forest fires from a tower, and how fire weather observations are made and used.

SNAKES AND HOW THEY LIVE (2149)

(Hollywood, Calif./Charles Cahill and Associates/1968/1 reel/13 min./sound/ color/16 mm) (Grades 4-6)

Presents a basic study of snakes in the study of reptiles. Includes close-up photography.

SNOW SPEED (1654)

(New York/United World Films, inc./1950/1 reel/10 min./sound/B & W/16 mm) (Grades 4-12)

Shows ski jump champions, speeding ice boats, a horserace on a frozen lake, and bobsledding at Mount Rainier's Winter Sports Carnival.

SNOWSHOEING (0369)

(Toronto/Moreland-Latchford Productions/1968/1 reel/12 min./sound/color/16 mm) (Grades 4-12)

Demonstrates the tricky aspects of walking in deep snow with "basket shoes".

SPRING COMES TO THE SUB-ARCTIC (1660)

(University of Minnesota/1955/1 reel/15 min./sound/color/16 mm) (Grades 7-12; adult)

Shows plant and animal life in the sub-Arctic and portrays the changes which occur as spring comes to the northern region of Canada. Includes detailed scenes of native plants, and close-ups of birds of the area.

SPRING IS AN ADVENTURE (2336) (SELF-SERVE #10-C-16)

(Chicago/Coronet Instructional Films/1955/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

With the coming of spring a young girl observes many changes; in human activities, in trees, in flowers, birds and animals.

THE SPRUCE BOG: AN ESSAY IN ECOLOGY (1100) (SELF-SERVE #2-B-13)

(Montreal/National Film Board of Canada/1956/1 reel/23 min./sound/color/16 mm) (Grades 4-12)

Describes the conditions under which a spruce bog is formed, with details of the plant types found at successive stages of development from open water to mature forest. Time-lapse photography illustrates the growth and decay of vegetation preceding the appearance of shangnum moss which chokes off water to make the floor of the forest. Discusses the commercial uses of peat extracted from such bogs and the value of black spruce to Canada's pulp industry.

STALKING SEAL ON THE SPRING ICE (3185)

(Education Development Center in association with National Film Board of Canada/ 1967/2 reels/59 min./sound/color/16 mm) (Grades 7-12; adult)

Portrays the traditional Eskimo life of the Netsilik Eskimos. Shows a family on the shore of Pelly Bay in May and June. Shows how seals are hunted and how the man and his wife skin the seals.

SUCCESSION: FROM SAND DUNE TO FOREST (1487)

(Encyclopaedia Britannica Films, inc./1960/1 reel/15 min./sound/color/16 mm) (Grades 7-12; adult)

Explains that succession is the process by which a given area changes slowly and continuously until it finally becomes a stable community. Shows one of the earliest and most thoroughly studied examples of this process, emphasizing the general principles involved and describing interesting details. Filmed at the southern end of Lake Michigan. With film guide.

THE SURFACE OF THE EARTH (1694)

(Hollywood, Calif./AV-ED Films/1959/1 reel/11 min./sound/color/16 mm) (Grades 4-12)

Describes the unusual formation of the ever-changing earth. Shows views of the caves of Virginia and New Mexico with their stalagmites and stalactites, of the wind-blown and water-worn mountains and rocks of the southwest, and of the glacial-formed lakes and valleys, using animation to explain how these wonders of nature were formed.

SURVIVAL KIT: PART 1 (3298)

(Toronto/Moreland-Latchford Productions/1967/1 reel/9 min./sound/color/16 mm) (Grades 7-12)

Details the numerous items in the survival kit contained in a pocket sized box and shows how they are designed to combat the seven enemies of survival.

SURVIVAL KIT: PART 2 (3297)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm) (Grades 7-12)

Shows the second day of survival in the wilderness and explains how the survival kit continues to keep them alive.

SURVIVAL ON THE PRAIRIE (1096) (SELF-SERVE #6-B-16, 6-B-17)

(New York/National Broadcasting Co./1970/2 reels/53 min./sound/color/16 mm) (Grades 7-12)

Studies the ecological history of the American grasslands, describing the destruction of the grasslands by man and the present-day realization that the land has to be protected.

SURVIVAL SWIMMING: TO SAVE A LIFE (1365) (SELF-SERVE #8-D-4)

(London/Boulton-Hawker Films in cooperation with the American Swimming Association/ 1965/1 reel/14 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates skills needed for survival swimming, including floating, use of side and breast stroke and treading water. Illustrates cases where it may be necessary to swim underwater and shows when and how to dive and jump. Demonstrates the correct use of a tow-line or rope ladder, getting into and out of the water, and using clothing for support.

THE TEMPERATE DECIDUOUS FOREST (1612)

(Encyclopaedia Britannica Films, inc./1962/1 reel/16 min./sound/color/16 mm) (Grades 7-12; adult)

Shows the full yearly cycle of spring, summer, fall and winter in the temperate deciduous forest. Pictures typical deciduous forest plants and animals in their natural environments and uses time-lapse, photomicrography and close-up photography to show the complex network of plant and animal relationships that make up the deciduous forest community. With film guide.

THAT THEY MAY LIVE: THE STORY OF DIRECT ARTIFICIAL RESPIRATION (1065)

(Hollywood, Calif./Pyramid Film Producers/1959/1 reel/19 min./sound/color/ 16 mm) (Grades 4-12; adult)

Shows how to apply direct artificial respiration in various emergency situations.

TOADS (2795)

(Los Angeles/Pat Dowling Pictures/1957/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Color paintings of ancient water and land animals are used to explain that the toad is an example of the few remaining descendants of prehistoric amphibians. Shows the life cycle of the toad from a water-born to a land dwelling animal. With study guide.

THE TROPICAL RAIN FOREST (1914)

(Encyclopaedia Britannica Films, inc./1961/1 reel/16 min./sound/color/16 mm) (Grades 7-12)

A camera study of the complex communities which make up the tropical rain forest. Points out that the greatest variety of plant and animal life is found in the tropical rain forests, which cover 1/10th of the earth's land surface. With guide.

THE TROUT LAKE CREE (0556) (SELF-SERVE #10-E-11, 10-E-12)

(Universal City, Calif./Universal Education and Visual Arts/1974/2 reels/57 min./sound/B & W) (Grades 7-12; adult)

Documents the way of life of the Trout Lake Cree Indians of Alberta, with emphasis on the traditional role of hunting, fishing and trapping in the community life. Describes how these ancient methods of survival have formed the basis of the tribe's culture and values.

URBAN USES OF LAND FOR INDUSTRY (1978)

(Hollywood, Calif./Academy Films/1967/1 reel/18 min./sound/color/16 mm) (Grades 7-12)

Shows some of the important uses of urban land with emphasis on conservation, transportation, factories and various industries including communication, the motion picture and television industries and the oil refineries.

USING A COMPASS (1463) (SELF-SERVE #1-D-20)

(Toronto/Moreland-Latchford Productions/1967/1 reel/12 min./sound/color/16 mm) (Grades 4-12)

Shows the types of compasses and how to use the compass with a map. Also explains how to follow a bearing, how to estimate distances by tally, and how to use the pace system.

VACANT LOT (0475)

(Chicago/International Film Bureau/1961/1 reel/21 min./sound/color/16 mm) (Grades 4-12)

Shows the various forms of life to be found on a vacant lot in a region near Upper Michigan. Pictures plant and insect life and shows adaptation and interdependence of various forms of life.

A VISIT TO THE WATERWORKS (1073)

(Chicago/Encyclopaedia Britannica Films, inc./1956/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Shows an elementary school class being taken on a tour of the local waterworks. Demonstrates how water is pumped in, chemically treated, filtered and tested before it is piped to houses and buildings of the town. Points out major water supply sources and illustrates various uses of the community water supply. Information in this film is dated, although it is still of value for educational purposes.

THE VOYAGEURS (1830) (SELF-SERVE #3-A-21)

(Montreal/National Film Board of Canada/1964/1 reel/21 min./sound/color/16 mm) (Grades 4-12)

Uses commentary from journals of a century ago to recall the adventures of the early French fur traders, the first men to penetrate the Canadian frontier via the treacherous waterways. Actually filmed on the Ottawa, Mattawa and other rivers that once formed the 3,000 mile trade route to Athabasca.

WANTED ALIVE (1872)

(Wah Chang/1972/1 reel/10 min./sound/color/16 mm) (Grades 7-12)

Views the endangered species of animals and birds that may soon disappear and those that have become extinct through man's destruction of their natural environment. Calls attention to pollution, the use of insecticides, and man's wanton killing of these animals and birds which are the causes of ecological imbalance.

THE WATER DILEMMA (2360)

(Canadian Broadcasting Corp./Toronto/1972/1 reel/20 min./sound/color/16 mm) (Grades 7-12)

Explores the issues surrounding the storage and sale of Canadian water to the United States for use in the arid but increasingly populous Southwestern United States.

WATER IN THE AIR (1078)

(Chicago/Cenco Educational Films/1962/1 reel/13 min./sound/color/16 mm) (Grades 4-9)

Explains that the water in the air plays a role in determining the kind of weather at a given moment. Describes how the excess water condenses to form precipitation. Points out that the continuous process of evaporation and condensation of water in the atmosphere is necessary for the existence of living and growing things.

WATER, WATER EVERYWHERE (0286) (SELF-SERVE #1-D-3)

(National Film Board of Canada/1971/1 reel/5 min./sound/color/16 mm) (Grades 4-12; adult)

Shows the slow gasping death of a trout in increasingly polluted water.

WATERFOWL: A RESOURCE IN DANGER (2412)

(Montreal/National Film Board of Canada/1966/1 reel/17 min./sound/color/16 mm) (Grades 4-12)

Explains that the farmer in the grain-growing region of western Canada who fills in potholes and drains marshes, poses a threat to the survival of waterfowl by depriving them of food and nesting grounds.

WE'RE AT HOME! (3637) (SELF-SERVE #5-A-25)

(Manitoba School Broadcasts/1975/1 reel/15 min./sound/color/16 mm) (Grades K-6)

In this film, some mammals and birds native to western Canada are shown at Assiniboine Park Zoo.

WE'RE FROM AFAR! (3636) (SELF-SERVE #5-A-26)

(Winnipeg/Manitoba School Broadcasts/1975/1 reel/18 min./sound/color/16 mm) (Grades K-6)

Describes exotic mammals and birds found in the Assiniboine Park Zoo, including the Siberian tiger, deer, camel, flamingo, zebra, ostrich, buffalo and stork. The film explores these birds and mammals in terms of their behavior and communication ability. For corresponding videotapes in the library, see VR 590.74471 A87 v.2 and VR 590.74471 A87r v.2.

WEATHER: UNDERSTANDING STORMS (2595)

(Chicago/Coronet Instructional Films/1962/1 reel/11 min./sound/B & W/16 mm) (Grades 4-9)

Shows how temperature, pressure and moisture interact to bring about the various types of storms and describes the distinguishing characteristics of each type. Emphasizes the increasingly important role of meteorology and weather satellites in forecasting storms. Development of a storm cloud, tornadoes, hurricanes, dust storms, and blizzards.

EATHER: WHY IT CHANGES (1691)

(Chicago/Coronet Instructional Films/1962/1 reel/11 min./sound/color/16 mm) (Grades 4-12)

Presents a simple and clear explanation of how and why changes in weather occur. Locates the air masses which govern major weather changes in North America and shows what happens when these masses interact, forming cold fronts, warm fronts and occluded fronts.

WHAT IS ECOLOGY? (2448)

(Encyclopaedia Britannica Films/1961/1 reel/11 min./sound/color/16 mm) (Grades 7-

Explores the major biomes of the world from high Arctic to the tropical rain forest. Shows plants and animals in their natural habitats. Discusses the relationships between organisms and their environment, the community concept and changes that take place within communities. With guide.

WHAT MAKES THEM RUN? (0609)

(Ottawa/Crawley Films/1974/1 reel/22 min./sound/color/16 mm) (Grades 7-12)

Shows the world championship meets for orienteering held in Sweden in the summer of 1973.

WHO KILLED LAKE ERIE? (0484) (SELF-SERVE #5-C-17, 5-C-18)

(National Broadcasting Co./1969/2 reels/52 min./sound/color/16 mm) (Grades 7-12)

Presents Lake Erie as an example of man's indifferent destruction of his environment. Shows the pollution of the lake, the results of that pollution and what is being done about it.

WILDFIRE (1496)

(MGM Documentary/Ronox Productions, inc./1971/2 reels/52 min./sound/color/16 mm) (Grades K-12)

Originally telecast on the NBC documentary program G.E. monogram series. A documentary about large fires, fire-fighting methods and people, animals and nature destroyed by fires.

WINTER SURVIVAL IN THE BUSH (4132) (SELF-SERVE #12-A-17)

(Yellowknife, N.W.T./Goldi Productions/1981/1 reel/19 min./sound/color/16 mm) (Grades 7-12)

Through three dramatic case histories, the film teaches the viewer how to recognize the basics of winter survival. Includes information on first aid, fire-building, shelter construction, signals, food and preparation of an emergency kit.

YOU BET YOUR LIFE: A MATTER OF SURVIVAL (4031)

(Winnipeg/Cotter Wildlife Productions/1979/1 reel/26 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates various winter survival techniques - equipment to carry in a car, what items to put into an emergency or survival kit, and how to construct three different types of winter shelters. Stresses the importance of being prepared for an emergency. With guide.

YOUR ENVIRONMENT IS THE EARTH (0814)

(Reinald Werrenrath, Sr./1968/1 reel/13 min./sound/color/16 mm) (Grades 4-6)

Describes an environment as the surroundings in which we live and explains that our environment on the surface of the earth is necessary to sustain our lives. Shows the various environments found within each of our temperature zones. Demonstrates that exploration of the ocean depths and outer space calls for taking part of our natural environment with us.

5. DEPARTMENT OF ENVIRONMENT & WORKPLACE SAFETY & HEALTH

Publications are available from:

Manitoba Environment
Community Relations Branch
960 - 330 St. Mary Avenue
Winnipeg, Manitoba
R3C 3Z5

Ph. 944-5763

Annual Reports (Outlines activities of the Manitoba Environment Department. Each year's report covers the period from April 1 to March 31, the following year.)

Environment and the Law** (1972) - A summary of environmental jurisdictions and federal anti-pollution legislation in Canada.

Environment Source Book (1978) - A guide to Environmental Information in Canada. (Joint project by Department of Environment and Provincial Environment and Renewable Resources Departments.)

The All-Canadian Clean-Up** (1974) - An outline of the work and concerns of the Federal Environmental Protection Service.

Why All the Fuss About Phosphates? (Describes the problem of phosphate pollution and how to minimize it.)

A Billpayer's Guide to Furnace Servicing* (How to save money and Canada's Energy Resources by proper furnace servicing.)

Keeping the Heat In* (How to re-insulate your home to save energy and money.)

The Garbage Book* (How to save energy and money by throwing out less.)

100 Ways to Save Energy and Money in the Home* (Tips on how you can stretch Canada's Energy Resources and put money in your pocket.)

The following publications are fully illustrated, in-depth reports:

- Lake Manitoba - The Third Great Lake
- The Winnipeg River
- The Red River in Manitoba
- Private Sewage Disposal Systems

Acid Rain: A Manitoba Perspective
Air Quality in Manitoba
Anhydrous Ammonia
Clean Environment Act

*Published by Federal Government - Department of Energy, Mines and Resources Canada
**Published by Federal Government - Environment Canada

Clean Environment Commission
Clean Environment Commission - Public Hearings
Community Noise
Eco Activities for Elementary Schools
Environmental Accidents
Litter and the Law
Manitoba Environmental Council
Manitoba's Biomonitoring Program - Monitoring Our River Systems
Manitoba's Environmental Agencies
Noise Pollution in Manitoba
Polychlorinated Biphenyls
Private Waste Disposal Systems
Solid Waste Management
W.M. Ward Technical Services Laboratory
Water: It's Supply and Conditioning

Hazardous and Special Wastes - Bibliography 1980-83
Hazardous and Special Wastes - Looking to the Future
Hazardous and Special Wastes - Manitoba's Plan

Annual Report of the Environmental Management Division 1981 and 1982
Environmental Accident Reports 1980, 1981 and 1982
Environmental Assessment and Review Process - Policy Booklet

Acid Rain: The Downwind Story

Technical Reports:

- A Limnological Survey of Anderson and Wekusko Lakes (1977)
- Data Supplement to: A Limnological Survey of Anderson and Wekusko Lakes (1977)
- Heavy Metal Concentrations in Northern Manitoba Lakes and River Sediments (August, 1979)
- A Report of the 1980 Cladophora Bloom on the Souris River
- Air Quality in the Point Douglas Area of Winnipeg During July and August of 1981
- 1979 Mercury Levels in Fish of the Assiniboine, Red, Souris and Winnipeg Rivers (September, 1981)
- 1980 Mercury Levels in Fish of the Assiniboine, Red, Souris and Winnipeg Rivers (February, 1982)
- A Conductivity Study on the La Salle River 1981-82 (March, 1982)
- Mink and Otter as Indicators of Mercury in Manitoba Watersheds (April, 1982)
- Monitoring of Mercury in Manitoba Mink and Otter (June, 1982)
- Air Quality in the McIvor Avenue Area of Winnipeg During July, 1982
- Red River Water Quality: Scientific Support Documentation of Water Quality Changes (July, 1982)
- Bathymetry and Morphometry of Trout and Cliff Lakes (October, 1982)
- A Survey of Aquatic Macrophytes and Water Quality in Max, William, Adam, Bower, Sharpe and Metigoshe Lakes, August 11 and 12, 1981 (November, 1982)
- An Investigation of Potential Pollution of Gods Lake by Leachate from an Abandoned Gold Mine (December, 1982)

1982 Reports on the Tropic Status of:

- Lake Winnipeg
- Lake Manitoba
- Pelican Lake
- Falcon Lake
- West Hawk Lake
- Caddy Lake
- Brereton Lake
- Red Rock Lake
- Jessica Lake
- White Lake
- Betula Lake
- Star Lake
- Moose Lake
- Wanipigow Lake
- Bird, Beresford and Booster Lakes
- Barren Lake
- Florence and Marion Lakes
- Boissevain Reservoir
- Metigoshe Lake
- St. Malo Reservoir
- Clearwater and Cormorant Lakes
- Setting Lake
- Six Lakes on the Winnipeg River
- Killarney, Wahtopanoh, Rossman and Sandy Lakes

Report on Mosquito Control Programs in Manitoba - Clean Environment Commission (October, 1982)
A Synopsis of Arsenic Dispersion Surveys - St. Pierre, 1979-81
The Effects of Atmospheric Emissions from the Thompson Mining and Smelting Industry on Forest Vegetation and Soils (October, 1981)
Effects of Emissions on Small Rodents Near Thompson Smelter (October, 1981)
Status of Soils and Geology Sensitivity Mapping in Western Canada (September, 1981)
Ambient Fluroide Levels and Their Effects on Vegetation and Soil in the Vicinity of the Red River Brick and Tile Company, Lockport, Manitoba (January, 1981)

Due to restricted printing, we reserve the right to limit quantities. All publications are free of charge.

6. DEPARTMENT OF NATURAL RESOURCES

A) NATURAL RESOURCES LIBRARY

A wide variety of periodicals, books, pamphlets, reports and reprint articles are available on outdoor education subjects, from:

Natural Resources Library
Box 26
1495 St. James Street
Winnipeg, Manitoba
R3H 0W9

Ph. 944-6605

Hours: 8:30 A.M. - 4:30 P.M.
Monday - Friday

Of special interest is a file of Outdoor Activity Programs compiled by the Parks Branch as a service to teachers and youth club leaders wishing to use Provincial Parks for field trips. The staff will be pleased to show our resources to visiting teachers.

B) PARKS BRANCH

Information and programs are available to teachers by contacting:

Department of Natural Resources
Parks Branch
280 Smith Street
Winnipeg, Manitoba
R3C 1K2

Ph. 944-3703

A. PROGRAMS

1. Group Use Information

a) Park Entrance Passes

Free entrance to Manitoba Provincial Parks will be extended to the following groups for day-use and special-use programs:

- School and youth groups
- Charitable organizations

i) Designated school buses (those displaying in 8" lettering "School Bus" front and rear with flashing lights affixed to the vehicle transporting students and day-use or special-use programs) are granted free entrance into provincial parks up to and including the last weekday in June.

ii) Following this date, until the re-opening of the regular school session, all school buses transporting organizations and/or groups on day-use or special-use programs must present a special triangle pass to gain free entrance into provincial parks.

To obtain special entry passes, a written request must be submitted to:

Public Affairs
Visitor Services Section
Parks Branch
280 Smith Street
Winnipeg, Manitoba
R3C 1K2

These passes are granted for a specified time only and must be surrendered to the park gate attendant.

iii) Charitable organizations utilizing a charter bus or van requiring free entrance during the park operating season (mid-May until the end of September) will be provided an entrance pass upon written application to the Public Affairs office. These passes are granted for a specified period and must be surrendered to the park gate attendant.

iv) Senior citizen groups touring parks and utilizing charter buses or vans must apply to the Public Affairs office to obtain vehicle entry passes.

Senior citizens operating their own motor vehicle and presenting suitable proof of age may enter provincial parks without payment of the park entry fee.

Senior citizens who register for a campsite may camp without payment of the camping fee, Monday noon until Friday noon of any week.

v) Special two-hour passes for the day camp and group-use site at Birds Hill Provincial Park will be made available for private cars or service vehicles transporting children or disabled persons in or out of the park.

b) Group-Use Facilities and Services

Group-use facilities are available in many provincial parks. These facilities which include group camping and day-use areas are available on the following basis:

i) Free group camping privileges are available to school organizations and charitable organizations or groups utilizing designated group camping areas.

ii) Schools and other non-profit groups requesting the use of regular campsites will be required to pay the applicable transient camping fee.

c) Group-Use Areas

The following list indicates the provincial park group-use area locations and the addresses where reservations may be used.

Please make arrangements in advance for your field trips.

Asessippi Provincial Park
Box 849
Roblin, Manitoba
ROL 1P0

Turtle Mountain Provincial Park
(Adam, Max & William Lakes)
Box 820
Boissevain, Manitoba
ROE 0E0

Birds Hill Provincial Park
Box 183, R.R. #2
Dugald, Manitoba
ROE OKO

Clearwater Provincial Park
Box 2550
3rd Street and Ross Avenue
The Pas, Manitoba
R1A 1M4

Duck Mountain Provincial Park
(Wellman & Childs Lake)
P.O. Box 239
Swan River, Manitoba
ROL 1ZO

Hecla Provincial Park
P.O. Box 70
Riverton, Manitoba
ROC 2RO

Spruce Woods Provincial Park
Box 247
Carberry, Manitoba
ROK OHO

Whiteshell Provincial Park
(Falcon)
Falcon Lake, Manitoba
ROE ONO

(Caddy Lake) West Hawk
West Hawk Lake, Manitoba
ROE 2HO

White Lake
Rennie, Manitoba
ROE 1RO

Camp Morton Provincial Recreational
Park
Box 388
Winnipeg Beach, Manitoba
ROC 3GO

St. Malo Provincial Recreational
Park
Box 2019
Steinbach, Manitoba
ROA 2AO

Stephenfield, Norquay & Lynchs
Point Provincial Recreational Park
25 Tupper Street
Portage la Prairie, Manitoba
R1N 3K1

d) School Program (Outdoor Education Program)

Some Provincial Parks have educational programs available for school groups. These programs will be planned jointly by park specialists and teachers. Requests for information should be directed to:

Ken Porteous
Visitor Services Specialist
Birds Hill Provincial Park
Box 183, R.R. #2
Dugald, Manitoba
ROE OKO

Ph. 222-9151

Rod MacCharles
Visitor Services Specialist
Whiteshell Provincial Park
Falcon Lake, Manitoba
ROE ONO

Ph. 1-349-2201

Rick Searle
Visitor Services Specialist
Spruce Woods Provincial Park
Box 488
Brandon, Manitoba
R7A 5A4

Ph. 1-727-0747

On a seasonal basis, Visitor Services attendants in Hecla and Grand Beach Provincial Parks may be available to assist teachers in using these parks from late May to the end of June.

For further information, contact:

Dennis Hlady
Ranger in Charge
Hecla Provincial Park
Box 70
Riverton, Manitoba
ROC 2RO

Ph. 1-378-2945

Bob Brudy
Ranger in Charge
Grand Beach Provincial Park
Grand Beach, Manitoba
ROE 0SO

Ph. 1-754-2728

e) Outdoor Recreation

Provincial parks may provide your group with opportunities to experience the outdoors through canoeing, cross-country skiing, snowshoeing, walking, backpacking and cycling. There are trails and routes of varying lengths and difficulty, some of which have a map pamphlet or brochure describing them.

To obtain park maps or brochures, contact:

Parks Branch
Public Affairs
Second Floor - 280 Smith Street
Winnipeg, Manitoba
R3C 1K2

Ph. 944-3703

2. Park Maps

a) Provincial Parks

- Asessippi
- Clearwater
- Duck Mountain
- Grand Beach
- Hecla
- Nopiming
- Spruce Woods
- Turtle Mountain
- Whiteshell

b) Provincial Recreation Parks

- Bakers Narrows
- Grand Valley
- Lynch Point
- Manipogo
- Moose Lake
- Norquay
- Point Lake
- St. Ambroise
- St. Malo
- Stephenfield
- William Lake

Winter Recreation Maps

Whiteshell Provincial Park

Falcon/West Hawk Winter Activities

Cross-Country Ski Trails

- Alfred Hole
- Big Whiteshell Lake/Manitario Lake
- Inverness Falls
- Otter Falls

Snowmobile Trails

Whiteshell Power Toboggan Trails

Beaudry Provincial Park

Cross-Country Ski Trails

Birds Hill Provincial Park

Winter Activities

Clearwater Provincial Park

Winter Activities

Bakers Narrows Provincial Recreational Park

Cross-Country Ski Trails

Grand Beach Provincial Park

Winter Recreation Trails

Hecla Provincial Park

Winter Recreation Trails

Portage Sandhills

Cross-Country Ski Trails

Sandilands Provincial Forest

Cross-Country Ski Trails
Snowmobile Trails

Spruce Woods Provincial Park

Winter Activity Trails

Turtle Mountain

Winter Recreation (general)

Duck Mountain Provincial Park

Cross-Country Ski Trails

Whitemouth River

Cross-Country Ski Trails

c) Canoe Route Maps

Canoe route maps, topographical and air photo maps may be obtained from:

Department of Natural Resources
Map Sales
1007 Century Street
Winnipeg, Manitoba
R3H 0W4

Ph. 632-8681

Grass River Canoe Route
Kautunigan Route
Little Grand Rapids Route
Middle Track and Hayes River Route
Mistik Creek Canoe Route
Riviere aux Rats Route des Canots (French version)
Riviere aux Rats Canoe Route (English version)
Sasaginnigak Canoe Country
Whitemouth River Canoe Route
Winnipeg River Route
Frances Lake Canoe Route

3. Summary

The following chart, Table 1, outlines the various facilities, programs and activities that are of special value to groups wishing to have an educational, recreative and enjoyable park visit. We invite teachers and group leaders to study Table 1 and the preceding descriptive information in making their plans for group visits to the parks. Those wishing to reserve a facility or receive programming assistance, to ensure a successful outing, should provide our staff with the following information:

- name of group (address)
- desired service
    - camping area requested
    - day-use area requested
    - school program (priority to school groups)
    - scheduled public program (available to any group)
    - trail or route map and information desired
- group size
- arrival and departure times and dates
- contact person and phone number

In some group-use locations, the use of wheeled recreation or motor vehicles may be restricted.

As many requests for space are received, please be in contact prior to May 1st, to avoid disappointment.

The Parks Branch is looking forward to assisting you with your school program and outdoor recreation plans, so that your students and group members may enjoy Manitoba's Provincial Parks.

TABLE I
GROUP SERVICES
FACILITIES, RECREATION OPPORTUNITIES
AND EDUCATIONAL PROGRAMS

PARKS		Canoe Routes	X-C Ski & Snow-shoe Trails	Walking, Hiking & Backpacking Trails	Self Guiding Trails	Scheduled Public Programs				School Programs (Outdoor Education)	Group Use Areas (Summer only)
						Amphi-theatre	Conducted Walks	Other Events	Interpretive Centre/Museum		
EASTERN REGION											
Birds Hill			X	X	X	X		X		X	X
WHITESHELL	Falcon		X	X	X	X		X			X
	Caddy	X		X	X						X
	White										X
	Big Whiteshell		X	X		X		X			X
	Nutimik				X	X			X		
	Alf Hole								X		
Grand Beach			X	X	X	X		X			
Camp Morton											X
Hecla			X	X	X	X		X		X	X
St. Malo											X
WESTERN REGION											
Spruce Woods		X	X	X	X	X	X	X	X	X	X
Stephenfield											X
Turtle Mountain			X	X	X						X
Duck Mountain			X	X	X						X
Asessippi					X						X
NORTHERN REGION											
Clearwater			X				X	X		X	X
Grass River		X									
Paint Lake		X	X	X	X						X

4. Pamphlets

To obtain a variety of interpretive information about parks environments, contact:

Department of Natural Resources
Public Information Services
Publication Distribution
Box 22, 1495 St. James Street
Winnipeg, Manitoba
R3H 0W9

Ph. 944-6786

(See page 130.)

5. Audio-Visual Information

A variety of films and slide presentations relating to outdoor environmental topics are available through the Public Information Service, Film Library. For information, telephone 944-6799. (See page 137.)

6. Library Services

Information on the following and other topics is available for use only in the Parks Branch library.

- Systems Planning
- Master Planning
- Tourism Development
- Interpretation
- Outdoor Education
- Outdoor Recreation
- Ecology
- History

For information about using the Parks Branch library, telephone:

944-6605

944-6610

C) PUBLIC INFORMATION SERVICES

Pamphlets and films are available from:

Department of Natural Resources
Public Information Services
Box 22
1495 St. James Street
Winnipeg, Manitoba
R3H 0W9

Ph. 944-6786

1. PAMPHLETS

(Classroom sets are available to school libraries on request.)

Birds and Mammals

Uninvited Guests (The Prairie Duck Problem)

- The duck crop-damage problem.

Ducks Unlimited

- A folder/wall chart illustrating ducks.

Birds of Oak Hammock

- Checklist of birds of the Oak Hammock Marsh Wildlife Management Area.

Birds Protected in Canada (Limited Quantities)

- Lists all bird species protected in Canada under federal law.

Extinct, Rare and Endangered Wildlife in Manitoba

- Explores the status of wildlife, past, present and future, in Manitoba.

A Nest Box for Wood Ducks

A Home for Purple Martins

A Home for Swallows or Bluebirds

- Simple set of plans and instructions to get you started.

The Great White Bears

- An up-to-date account of the polar bear.

The Wild Dogs

- Defense of the wolf is presented by facts that are now known.

Manitoba's Wildlife Heritage

- Suggests what landowners can do for various species of wildlife.

Birds of Churchill

- Whether you're a keen "birder" or naturalist, this informative guide to the birds of Churchill will prove invaluable and add to your knowledge of this interesting area.

Winter Bird Feeders

Birds of Delta Marsh Checklist

- Information and checklist on Delta Marsh for birders.

Canada Geese of Hudson Bay Lowlands

- Details life history and nesting habits of Manitoba's Canada Geese.

The White-Tailed Deer in Manitoba

- A publication that answers nearly every question you can ask about the White-Tailed Deer in Manitoba. Fully illustrated by Jim Carson.

Endangered Wildlife in Canada Information Series

- The series provides basic information on many wildlife species in Canada whose existence is threatened.

Birds of Birds Hill Provincial Park

- An up-to-date checklist of the birds of the park and vicinity.

The Environment

A Sampling of Manitoba Nature

- Many interesting natural happenings occur in Manitoba throughout the year - what to look for.

Land for Wildlife and People

- A full series of brochures which explore Manitoba's unique wildlife management areas.

A Crop of Priceless Treasures

- The Carberry Sandhills.

Flood Control

- Describes the major flood control systems employed throughout Manitoba.

Conservation Comment

- A monthly newsletter dealing with a wide variety of topics pertaining to conservation in general and to Manitoba in particular. Any interested person can be placed on the mailing list free of charge.

Taiga, Tundra and Tidal

- An introduction to Manitoba's unique coastal region, this informative book with its many photographs should be of particular interest to teachers, students and northern visitors.

The All Canadian Clean-up

- An informative federal government publication (English/French) which outlines the work and concerns of the Federal Environmental Protection Service.

Wildlife Protection in Manitoba

- Why protect our wildlife? This publication attempts to answer this important question, while also providing an up-to-date listing of species for the province.

Garrison - An Environmental Threat to Manitoba

- This publication outlines Manitoba's concerns and discusses the threat to Manitoba's environment if the project is completed.

Fish and Fishing

Sport Fishing Guide

- Contains information about angling seasons, regulations and the master angler award (given to everyone who purchases an angling license).

Fish for the Future

- A study of fish hatchery operations in Manitoba.

Fishes of Manitoba

- Color wall chart illustrates Manitoba's major fish species and the kind of habitats which they frequent.

Warmwater Fish

- Gives a brief outline about many of Manitoba's "rough" or "coarse" fish species.

The Fishing Bulletin

- Published 5 times a year, it provides information on the development of Canada's fresh water fishery.

Coldwater Fish

- This booklet gives a brief outline about Manitoba's trout and other coldwater sports fish. This is not a "how to catch" manual, but provides capsule information on these exciting sports fish species.

Hook n' Cook Series

- A series of information brochures on Manitoba's exciting sports "rough" or "coarse" fish. Discover a "new" world of great sports fishing right on your doorstep.

Key to Manitoba's Sports Fish

- For fishermen, a fish checklist with related fisheries information.

Forests and Forestry

Just a Bunch of Trees

- Explores the interplay of factors that determine the nature of a forest and looks at some of the things that can destroy a forest.

Pineland Forest Nursery

- Outlines step-by-step the process involved in regenerating Manitoba's forests.

Smokey the Bear

- A varied selection of booklets, brochures, posters, stickers and pamphlets dealing with forest fire prevention.

Dig-Your-Own

- Outlines the correct methods of transplanting wild native trees and shrubs.

Wildfire

- Why we need to protect Manitoba's forests - fire, its good and bad effects.

Field Guide to the Native Trees of Manitoba

- Like people in a crowd, trees in a forest tend to look alike. But look closely and you will find that each has a character and distinctiveness of its own. This handy pocket sized book, with its many illustrations, allows you to quickly identify all 24 native Manitoba trees.

Dutch Elm Disease

- These 4 pamphlets discuss Dutch Elm Disease, how to recognize it and how it may be controlled.

Hunting

Grant's Lake/Oak Hammock

- Explains in detail the new game management plans and regulations for the Grant's Lake and Oak Hammock areas.

Facts About Manitoba Waterfowl Hunting Regulations

- Basic information on Manitoba's migratory hunting regulations (1979-83).

Field Handling of Game

- This valuable aid to hunters and fishermen illustrates the proper methods of handling game, including deer, moose, bear, game birds and fish. The various methods of cleaning, dressing and storing are discussed.

Waterfowl Hunters Target Pattern Sheet

- A help to the hunter - check your shotgun pattern along with valuable information to assist quality hunting in Manitoba.

Game Bird and Big Game Seasons

- Contains season and bag limit information for hunters. Also includes some of the Wildlife Act Regulations which affect hunters. Published annually.

Information Series (Available in Limited Quantities)

1. Is Lake Winnipeg Polluted?
2. Tree Improvement in Manitoba
3. The Snow Geese of La Perouse Bay
4. Lake Winnipeg Whitefish
5. Lake Manitoba - The Third Great Lake
6. The Winnipeg River
7. Community Noise
8. Rural Area Solid Waste Disposal
9. Environmental Agencies and Activities in Manitoba
10. Water Quality - Red River
11. The Wildlife Cycle in Manitoba
12. Mosquito Control
13. Mule Deer
14. Private Sewage Disposal Systems
15. Air Pollution Control
16. Water: Its Supply and Conditioning

People

The Outsider

- A periodic newsletter which focuses on environmental projects, education and life-sport activities.

Botch-Up-Manship

- Humorously points out some of the pitfalls in wilderness camping and what can happen to careless campers.

Quite a Bit About Maps and Compasses

- Everything you've always wanted to know about maps and compasses.

Teacher Attitudes to Environmental Education

- A survey of teachers' attitudes to environmental education in Manitoba.

Career Guide to Becoming a Natural Resource Officer

- Background information for people interested in learning about the work and responsibilities of a Natural Resource Officer.

Career Guide to Becoming a Forester

- Discusses the role of the forester and the educational requirements necessary to become a forester.

Bears, Outdoors and You

- What to do and what not to do when you encounter bears in Manitoba outdoors.

Backcountry Camping

- Outlines and encourages the use of no-impact camping techniques to keep our wild lands wild and suggests survival gear for backcountry trips.

Manitoba Winter

- Provides an introduction to some of the ways in which you can view the world of winter in Manitoba.

Self-Guiding Interpretive Trail Brochures

- Most Manitoba Provincial Parks have brochures describing the flora, fauna and geography that may be observed along self-guiding trails within the parks. These pamphlets are available on request at the parks offices.

Plants and Flowers

Some Edible and Poisonous Berries

- Describes poisonous and edible plants common to Alberta, Manitoba and Saskatchewan.

A Taste of Wild Fruits

- Outlines the many varied and enjoyable uses of wild fruits. Recipes available on request.

Trapping

How to Grade Furs

- Describes the general principles that govern the grading of new furs in Canada.

Trapping Seasons Brochure

- An information service for persons interested in fur production and trapping. Yearly publication.

The Manitoba Trapper's Guide

- Designed for and distributed to people actually engaged in trapping, with illustrations of traps for various types of furbearers.

Also Available

Annual Reports

- Outlines activities of the Manitoba Department of Renewable Resources and Transportation Services. Each report covers the period from April 1 to March 31, the following year.

Posters and Other Environmental Education Materials

- A number of posters and other environmental education aids are on occasion made available to tie in with specific information programs. Please enquire about current programs.

2. FILMS

Write, drop in or telephone:

Department of Natural Resources
Public Information Services
Box 22, 1495 St. James Street
Winnipeg, Manitoba
R3H 0W9

Ph. 944-6799

We'll need to know when you want the films, which you want, where and how to ship them.

Circumstances may make some of your choices unavailable when you want them. Let us know your alternate choices.

Last, but not least - send the films back as soon as you are through with them. Don't be the cause of someone else's disappointment. You are only required to pay return postage.

N.B. - Due to delivery/return time delay problems, no films will be loaned outside Manitoba except in extraordinary circumstances.

BIRDS AND INSECTS

A Trilogy of Manitoba Wildlife

- Filmed by Manitoba outdoors photographer, George Cotter, these 3 films span the different types of habitat found in southern Manitoba. They can be shown as a series or individually. Each 20 minutes. Suitable for all ages.

  Forest Trails

  - The forest is a different world altogether, with boundless beautiful types of living things, all of which add to our enjoyment of life.

  Marshland Summer

  - Marshes are strange and wonderful places, providing a home for a multitude of things, all of which contribute to the intricate balance which makes up the natural world.

  Prairie Seasons

  - Many people feel that the prairie is a barren place, but it teems with a variety of wildlife and plant life.

Adaptations for Survival

- Shows how birds are well adapted to survive in the environment in which they live. Deals with many types of birds from small song birds to large birds of prey. 15 minutes. Suitable for ages 12 to adult.

Birds of Canada Series

- This series of films tells their stories without words. Only the natural sounds of the wild are heard. Each shows something of the life history of a species of bird or a group of birds. Suitable for all ages. Included in the series are:

  Birds of the Forest - 5 1/2 minutes
  Canada Goose - 6 1/2 minutes
  Gull Island - 8 minutes
  The Robin - 5 1/2 minutes
  Water Birds - 5 1/2 minutes
  White Throat - 10 minutes

Great Grey Owls

- Produced by well known Manitoba film maker, George Cotter, this film is a life study of the Great Grey Owl. 12 minutes. Suitable for ages 10 to adult.

Grouse Country

- Features spectacular film footage of many of the grouse found across Canada. 28 minutes. Suitable for ages 10 to adult.

*Insects are Interesting

- Shows various insects during different stages of development with emphasis on locusts, wasps, moths and butterflies. 10 minutes. Suitable for all ages.

*Living Bird

- This film develops an appreciation of the bird's powers of flight and by comparing the bird's metabolism with that of man, shows how birds have developed an efficient biological machine capable of flight. 20 minutes. Suitable for ages 13 to adult.

Loons of Amisk

- The loon is a symbol of wilderness - and man's activities are driving them from many of their former ranges. You'll learn what a remarkable bird the loon is in this film. 15 minutes. Suitable for all ages.

Marsh Blackbirds

- There's a fascinating, complex and beautiful story that unfolds every year in the wetlands. This film, produced by the department, shows the territorial and mating displays of Red-winged and Yellow-headed blackbirds. 24 minutes. Suitable for ages 13 to adult.

*Metamorphosis of the Cecropia Moth

- Watch the mating of the cecropia moth and follow as we see the larvae develop into this beautiful moth. 8 minutes. Suitable for ages 10 to adult.

*NOT AVAILABLE TO THE GENERAL PUBLIC BETWEEN MAY 15th and SEPTEMBER 1st.

*Oisin

- The entire soundtrack of this film consists of the sounds of nature. Filmed entirely on location in Ireland, it shows native birds and animals against a spectacular background of this beautiful country. 17 minutes. Suitable for all ages.

Osprey's Domain

- The Osprey, a fish-eating hawk, is examined from egg to adult bird. Includes spectacular footage of osprey catching fish. 15 minutes. Suitable for all ages.

Prairie Slough

- Sloughs can support a variety of bird life. This film shows most of them, as well as different mating displays of certain species. 15 minutes. Suitable for ages 12 to adult.

The Life of the Honeybee

- Follow the life cycle of this interesting and helpful insect. 28 minutes. Suitable for all ages.

This is the Mallard

- The life story of the mallard duck from its wintering ground through breeding seasons and back again. 40 minutes. Suitable for ages 8 to adult.

Watching Wild Wings

- Basically a duck identification film. Primarily of interest to hunters, but naturalists may also learn from it. 28 minutes. Suitable for ages 12 to adult.

Wild Wings

- The story of the Severn Wildfowl Trust near Slimbridge, England, and its role in waterfowl research. 28 minutes. Suitable for ages 10 to adult.

MAMMALS

A Way of Life

- Everyone knows a coyote is a predator. But how often do you think of a robin as a predator? This film demonstrates how almost every living thing - including man - is either a predator or prey species. 27 minutes. Suitable for ages 10 to adult.

Boreal Forest (Fall and Winter)

- Emphasizes the preparation and adaptations made by plants and animals to survive the rigors of winter in the boreal forest. Special adaptations of predators and prey are shown. 15 minutes. Suitable for all ages.

*NOT AVAILABLE TO THE GENERAL PUBLIC BETWEEN MAY 15th and SEPTEMBER 1st.

Boreal Forest (Spring and Summer)

- Shows the sights to be seen during the spring and summer in the boreal forest and aspen parkland. Animals are shown courting and nesting. A great many plants in profuse bloom are shown. 15 minutes. Suitable for all ages.

Death of a Legend

- The wolf has been a reviled creature for centuries, but has he deserved this reputation? Conservationists and biologists now say no, that the wolf plays an important part in the balance of nature and he is a magnificent animal. The film tries to balance the scales of opinion. 50 minutes. Suitable for ages 10 to adult.

Following the Tundra Wolf

- This film shows the tundra wolf in its natural habitat with spectacular footage shot mainly from aircraft. See the wolf on his lifelong pursuit of the caribou. Explicit tracking and kill scenes are shown. 44 minutes. Suitable for ages 12 to adult.

Lakeside Habitat

- There's an incredible variety of wildlife to be found near water bodies, large and small, during a summer - and you'll see many of them in this film. 15 minutes. Suitable for all ages.

*Living Mammal

- Looks at the characteristics common to all mammals and at some of the differences between them. The film examines things such as different methods of defence and differences in tooth structure between carnivorous, herbivorous and omnivorous mammals. 17 minutes. Suitable for ages 10 to adult.

Sáfe Polar Bear

- Every fall in Churchill, polar bears become a major problem because they fearlessly enter the town in search of food - garbage. This Manitoba produced film shows what Conservation Officers and RCMP Officers do to protect the people, and also describes the biological research of Canadian Wildlife Service biologists. 16 minutes. Suitable for ages 12 to adult.

The Beaver

- This film shows the industrious beaver at work and shows impressive examples of his building ability. Excellent footage of this rodent chopping down trees. 14 minutes. Suitable for all ages.

*The Boreal Forest

- This film reveals the native trees and plants of the boreal forest and how they are affected by things like insects. 20 minutes. Suitable for ages 10 to adult.

*NOT AVAILABLE TO THE GENERAL PUBLIC BETWEEN MAY 15th and SEPTEMBER 1st.

The Polar Bear

- Features remarkable footage of bears in their natural environment. Shows how these bears live - and how man is affecting and studying them. 26 minutes. Suitable for ages 10 to adult.

The Wolf and the Whitetail

- A view of predator and prey that follows the growth of timber wolf pups and white-tailed deer fawns. The relationship between predator and prey is examined with emphasis on how each learns its roles. 26 minutes. Suitable for ages 12 to adult.

Wolf Pack

- A nature film that shows the absorbing, even admirable, qualities of the wolf's character and behavior, and his essential role in the natural scheme of life and death. 20 minutes. Suitable for all ages.

ENVIRONMENT

A Matter of Common Sense

- Looks at the problems of garbage disposal - what all of us can do to help - and at a project in recycling carried out in Ontario. 10 minutes. Suitable for ages 9 to 15.

America's Wetlands

- Through research, officials have found that the loss of wetlands through drainage could be a major cause of increased spring flooding. This film shows a variety of the wetlands across America and provides a glimpse of what the loss of these natural areas could do. 25 minutes. Suitable for ages 14 to adult.

Assiniboine Forest

- Produced by the Winnipeg Real Estate Board as a Centennial project, this attractive film describes the numerous values of a natural area adjacent to a metropolitan city. Some of the many ways in which people can enjoy quiet contact with nature in all seasons of the year are shown. 17 minutes. Suitable for all ages.

Atonement

- This film shows the efforts now being made by wildlife specialists to prevent more species from becoming extinct or as rare as the whooping crane. Scenes rarely photographed make this a spell-binding film throughout. 50 minutes. Suitable for ages 12 to adult.

At the Threshold of Eternity

- Examines the problems - and causes - of birds and mammals that are in danger of becoming extinct. Shows some of the things being done to help these animals. 28 minutes. Suitable for ages 10 to adult.

*Conservation and Balance of Nature

- The role of man in changing the existing balance in biological communities is examined critically. Investigates the most critical question of our time - what is man doing to his environment? 18 minutes. Suitable for ages 15 to adult.

Cry of the Marsh

- What happens when man decides to fill in a marsh? How does this affect the environment and the wildlife? This powerful and candidly emotional film captures the nature of marsh life and what happens to it when man "reclaims" a marsh. 12 minutes. Suitable for ages 12 to adult.

Edge of the Barrens

- A study of the tundra of Canada's sub-Arctic. You see the ungainly musk-ox, survivor of the Ice Age, and herds of caribou still following the migrant trails; also birds and flowers, smaller animals and insects. 14 minutes. Suitable for ages 10 to adult.

*Glaciation

- Today only remnants remain of the great ice sheets that once covered North America, but the glaciers found in the Canadian Arctic and mountain regions are still one of the most unusual elements of our natural environment and an amazing repository of geological history. 11 minutes. Suitable for ages 12 to adult.

*Glaciation Manitoba

- Gives a short history of the glacial age and shows different topographical features formed by glaciers. 5 minutes. Suitable for ages 10 to adult.

Land for Wildlife and People

- In Manitoba, Wildlife Management Areas play an important role in assuring that there'll be wild land and wildlife for future generations to enjoy. This film looks at some of these areas and shows the management work that takes place in them. 26 minutes. Suitable for all ages.

Life in the Woodlot

- The story of a family-owned woodlot, how it is managed and how it can provide hunting. 17 minutes. Suitable for all ages.

Man the Polluter

- A series of imaginatively done cartoons for adults that use humour to point out the very real and pressing problems facing mankind. 52 minutes. Suitable for ages 14 to adult.

*NOT AVAILABLE TO THE GENERAL PUBLIC BETWEEN MAY 15th and SEPTEMBER 1st.

Multiply and Subdue the Earth

- Explains the many ways in which our rapidly growing population is affecting both landscapes and people. Suggests ways in which we can plan the location of both homes and factories according to ecological principles. 70 minutes. Suitable for ages 15 to adult.

*River of Ice

- Shows day-to-day activities of a glacier using an Alaskan glacier as an example of how a glacier works. 10 minutes. Suitable for all ages.

*Techniques in a Boreal Ecology

Part A - An Environmental Analysis

- This film demonstrates the proper techniques for analyzing various aspects of snow. Also shows how to build a quin-zhee. 25 minutes. Suitable for ages 17 to adult.

The Top Few Inches

- This film delves into erosion of farmland and different ways to get the most use of the land with the least loss of soil. Shows excellent black and white footage from the 1930's. 19 minutes. Suitable for ages 14 to adult.

The Whole Earth's Invisible Colours

- Shows how wavelengths that are invisible to the eye can be photographed from planes and satellites. Explains how this information is used to inventory the earth's resources. 20 minutes. Suitable for ages 14 to adult.

We are of the Soil

- Soil erosion problems did not end with the 1930's. They're here today. This film explores the problem, whose problem it is and what can be done to alleviate it. 23 minutes. Suitable for ages 14 to adult.

FORESTS

After the Harvest

- In Manitoba, clearcutting is the most commonly used forest harvesting technique. This film demonstrates why, despite the initial appearance of the area, clearcutting actually aids the reforestation process. Shows the three methods of reforestation used in Manitoba. 20 minutes. Suitable for all ages.

Day of Discovery

- Follows a group of Manitoba school children on a day of discovery as numerous interesting facts are learned during a day spent in the forest. 24 minutes. Suitable for all ages.

*NOT AVAILABLE TO THE GENERAL PUBLIC BETWEEN MAY 15th and SEPTEMBER 1st.

Dutch Elm Disease

- If Manitoba is to preserve its stately elm trees, people with these trees on their property must be able to recognize Dutch Elm Disease and know what action to take when it's spotted. 25 minutes. Suitable for ages 14 to adult.

Foresters

- Modern forest techniques described in a way to make forest operations attractive, even if forestry isn't your favourite subject. 13 minutes. Suitable for all ages.

Forestry

- A quick look at how the forest industry operates in Manitoba, this film follows the operation from the roar of chainsaws in the bush to the finished product emerging from the mill at Pine Falls. 14 minutes. Suitable for all ages.

Keep It Green

- Six messages on forest fire prevention, featuring the cartoon characters "Sniff and Snuff". 7 minutes. Excellent for children.

Small Smoke at Blaze Creek

- Over half of the forest fire outbreaks occur through carelessness. The film of fires in B.C. shows a close view of fires and the results as experienced by the men who fight the blaze. 10 minutes. Suitable for ages 10 to adult.

Smokey the Bear

- Tells the story of how this symbol of forest fire prevention came into being - while explaining some of the consequences of a fire. 15 minutes. Suitable for ages 5 to 12.

Sniff and Snuff on the Moon

- This cartoon features the characters "Sniff and Snuff". As astronauts on the moon, they ask if the moon could be the way it is because of fires. A few possibilities are explained and bring them to the conclusion - "Don't let earth look like the moon - Prevent forest fires". 4 1/2 minutes. Excellent for children.

Spruce Bog

- Shows how a spruce bog is formed. Time-lapse photography shows the growth and decay of vegetation that ultimately leads to formation of the forest floor. 22 minutes. Suitable for ages 10 to adult.

Teamwork Spells Profit

- Forestry operations don't have to be big to be profitable - as this film proves. The operation of a portable sawmill in south-eastern Manitoba is examined. 10 minutes. Suitable for ages 16 to adult.

The Forest Watchers

- Tells us some remarkable things about one of our great natural resources. 26 minutes. Suitable for ages 10 to adult.

Wildfire

- Looks at the detection and fighting of forest fires in Manitoba. Explains the strategy involved in fighting fires. 15 minutes. Suitable for ages 11 to adult.

OUTDOORS

Bowhunting in North America

- This award-winning film gives pointers on good hunting, hunting ethics and safety tips. 30 minutes. Suitable for ages 12 to adult.

Cold Water - The Silent Killer

- This valuable film deals with hypothermia brought on by cold water. Proper techniques to revive a person with hypothermia are shown. 18 minutes. Suitable for all ages.

Coming Back Alive

- Careless use of a boat can kill. This film uses a touch of humour to point out common safety errors made by hunters, fishermen and others who use boats. 28 minutes. Suitable for ages 14 to adult.

*Crimson Lake

- This slide-tape on film follows an old timer from the Crimson Lake area as he explores the resources to be found in Alberta's Provincial Parks. Shows some of the history of the Crimson Lake area. 15 minutes. Suitable for all ages.

*Dinosaur World Heritage Site

- In 1980, the Dinosaur Provincial Park in the Badlands of Alberta was designated a world heritage site by the World Heritage Convention of UNESCO. This slide-tape on film explains how world heritage sites are decided and shows some of the totally different areas that make up Dinosaur Park. 17 minutes. Suitable for ages 12 to adult.

Campfire Control

- There's a right way and a wrong way to light, enjoy and extinguish a campfire. 24 minutes. Suitable for ages 11 to adult.

*Edible Plants in Summer

- This film demonstrates how to take a "taste test" to determine if you can eat plants and shows how to prepare them. 11 minutes. Suitable for all ages.

*NOT AVAILABLE TO THE GENERAL PUBLIC BETWEEN MAY 15th and SEPTEMBER 1st.

*Emergency Compasses

- If one should become lost while camping, a compass, while helpful, is not a must. Finding directions is possible and is demonstrated along with several other helpful camping tips. 12 minutes. Suitable for ages 10 to adult.

Look to See

- Provides a glimpse of six outdoor activities. It includes sequences on canoeing, bird watching, seeing the snake pits, fiddlehead collecting, visiting the tall-grass prairie and fly fishing. 20 minutes. Suitable for ages 10 to adult.

*Manitoba Impressions

- This scenic film is an overview of the various natural regions of Manitoba. It gives impressions of the area as seen through the eyes of Bill Mason, an award-winning film producer and artist, who is a native Manitoban. 26 minutes. Suitable for all ages.

*Paddle and Portage

- The different techniques of the art of canoeing are shown by Omar Stringer. Mr. Stringer has a background of 35 years of teaching canoeing and acting as a guide in Canada. 13 minutes. Suitable for ages 15 to adult.

Paddle Out of Peril

- This scenic film gives instructions on how to avoid impending trouble during the course of a canoe trip. Also shows how to rescue others who are in trouble themselves. 25 minutes. Suitable for all ages.

*Snowshoeing

- This film shows various types of snowshoes available and how to use them properly. 12 minutes. Suitable for all ages.

*White Water Canoeing

- This film shows the skills required and demonstrates the techniques needed for proper white water canoeing. Procedures for emergencies are also shown. 10 minutes. Suitable for all ages.

Winter Gallery

- A Manitoba winter is much too long to try and ignore. See how to enjoy the snow and the cold - see some of the sights that await those who venture outdoors in the winter. 20 minutes. Suitable for ages 10 to adult.

Winter Survival in the Bush

- This film shows three dramatic case histories and teaches viewers how to recognize a survival situation. Plenty of good tips are included on first aid, signals and building fires and shelters. 20 minutes. Suitable for ages 9 to adult.

*NOT AVAILABLE TO THE GENERAL PUBLIC BETWEEN MAY 15th and SEPTEMBER 1st.

You Bet Your Life

- Offers tips on winter survival. Useful for motorists, cross-country skiers, snowmobilers or anybody else who might one day find themselves stranded in the middle of a Manitoba winter. 30 minutes. Suitable for ages 12 to adult.

PEOPLE

Commercial Fishing - A Way of Life

- When the average Manitoban thinks of commercial fishing, he most often thinks of the coasts. But fishing is a way to earn a livelihood for a significant number of people in this province. This film takes a close look at one fishing dependent village to see what kind of life it is. 30 minutes. Suitable for ages 12 to adult.

Northern Fishermen

- Here we gain an insight into the problems faced by Indian fishermen in northern Saskatchewan and Manitoba. 27 minutes. Suitable for ages 16 to adult. ALSO AVAILABLE IN CREE LANGUAGE.

Rice Harvest

- Shows bush pilot Jim Johnson of Riverton as he goes on a buying trip of wild rice. Follow his autumn journey to the rice harvest camp on the lakeshore, where he barters with the Indians for a deal. 12 minutes. Suitable for ages 14 to adult.

Man the Trapper

- Trappers have been around for a long time - too long some people say. Is trapping an out-of-date, needlessly cruel occupation - or is it a viable employment opportunity in our technological world? This Manitoba produced film explores this much talked about issue. 24 minutes. Suitable for all ages.

The Miner

- Shows what life is like for a hardrock miner, both above and below ground. Also shows some of the modern day uses for nickel. 19 minutes. Suitable for ages 10 to adult.

*The Rice Dancer

- Shows native Bert Yerxa during harvest time for wild rice. Follow his activities as he gathers and prepares the crop for marketing, while traditional methods of harvesting are described. 20 minutes. Suitable for all ages.

You and Resource Management

- Outlines some of the types of work carried out by Resource Management agencies - and the various career opportunities that this creates. Shows the work of conservation officers, biologists, information workers, land planners, foresters and others. Designed primarily for high school students trying to decide what type of career they would like to pursue. 34 minutes.

*NOT AVAILABLE TO THE GENERAL PUBLIC BETWEEN MAY 15th and SEPTEMBER 1st.

WATER AND FISH

Among Fish

- A demonstration particularly suitable for school children on how fish live, breathe, swim and float up or down in the water. 11 minutes. Suitable for all ages.

Around a Big Lake

- Shows the forces of nature that shape the appearance of a large lake and the plant and animal life that live in and around the lake. 20 minutes. Suitable for all ages.

Freshwater World

- Shows some of the research work done by Environment Canada through the Freshwater Institute of Winnipeg. 25 minutes. Suitable for ages 11 to adult.

Frogs, Snakes and Turtles

- These creatures, although often ignored, play vital roles as caretakers of the environment. This film takes a close look at their life cycles and shows how their existence is threatened by man. 28 minutes. Suitable for ages 8 to adult.

Manitoba's Trout Farmers

- Rainbow Trout may never equal grain and beef as important cash crops in Manitoba, but they're in a league of their own when it comes to flavour. This film shows in some detail the way in which fingerlings are bought, stocked and harvested. Information is provided on the types of potholes and sloughs suitable for this type of farming. 24 minutes. Suitable for ages 14 to adult.

Rise and Fall of the Great Lakes

- A whimsical approach to the formation of the Great Lakes, showing geological succession and present-day use. Has a not-so-subtle criticism of how man is treating the lakes today. 17 minutes. Suitable for ages 12 to adult.

*Singing Frogs and Toads

- Shows these amphibians in their natural habitat as they grow from egg to adult. 9 minutes. Suitable for all ages.

Sparkle

- A visually impressive essay on a beautiful creek and what can happen to it when man makes his appearance. 18 minutes. Suitable for ages 10 to adult.

*The Newt

- Detailed life study of the newt, filmed in black and white. 9 minutes. Suitable for ages 10 to adult.

*NOT AVAILABLE TO THE GENERAL PUBLIC BETWEEN MAY 15th and SEPTEMBER 1st.

World in a Marsh

- An intimate view of the strange insects, small amphibious creatures and birds that live, devour and are devoured in a marsh. 21 minutes. Suitable for all ages.

SLIDE SHOWS

These slide shows packaged by the Parks Branch contain everything you'll need to make a slide presentation. Each package has a loaded slide tray, point form script, and suggested additional information. All you are required to supply is the slide projector.

Forests and Fires

- Almost 40% of Manitoba's total area is classified as forest land. Forests are communities of interdependent plants and animals. The dual role of fire as a force of renewal and as a force of destruction are discussed in a parks context. 80 slides. Approx. 15 minutes.

For the Enjoyment of Parks

- This program is designed to provide the park visitor with a positive understanding of the need for enforcement on Park Lands. 91 slides. Approx. 15 minutes.

Manitoba's Provincial Parks

- The program highlights the natural and cultural features of most major parks, including Turtle Mountain, Duck Mountain, Assessippi, Spruce Woods, Hecla, Grand Beach, Birds Hill, Whiteshell, Nopiming, Grass River and Pisew Falls Provincial Parks. 162 slides. Approx. 25 minutes. (2 projectors needed)

Plants, Wind and Sand

- This program deals with Spruce Woods Provincial Park and the small portion known as the Baldhead Hills. 80 slides. Approx. 15 minutes.

Refuge: An Introduction to Birds Hill Provincial Park

- Birds Hill was used as a refuge by people of the Red River Settlement during the great floods of 1826 and 1850. In the face of modern development and growth, it has become a new type of refuge, one that offers recreational opportunities throughout the year. 153 slides. Approx. 20 minutes. (2 projectors needed)

The Bog

- The bog is a frequently occuring plant community in eastern and northern Manitoba. This program illustrates the successional development of a bog from a pond to a climax forest community. 52 slides. Approx. 10 minutes.

The Grand Old Days

- Grand Beach is situated 100 km north of Winnipeg on the shores of Lake Winnipeg. The history and popularity of this resort since 1915 are discussed and illustrated through a series of old photos from the area. 80 slides. Approx. 15 minutes.

The Moose

- Moose are found throughout Manitoba in large undeveloped and unpopulated areas of land, including most provincial parks. This program discusses adaptations, physical and behavioural characteristics set against the changing seasons. 73 slides. Approx. 10 minutes.

The Ruffed Grouse

- Ruffed Grouse is a familiar non-migrating bird widely distributed in Canada and found in most of our provincial parks. This program discusses and illustrates the birds' physical characteristics, habitat and behavioural changes which enable it to adapt to the changing seasons in Manitoba. 73 slides. Approx. 10 minutes.

The Snapping Turtle

- The Snapping Turtle is Manitoba's largest reptile and one of the two species of turtles found in the province. This program centres around their physical and behavioural changes, including sequences of young turtles hatching. 60 slides. Approx. 10 minutes.

The Western Painted Turtle

- The Western Painted Turtle is one of our most visible forms of wildlife and the smaller of the two turtle species found in the province. Habitat requirements, physical characteristics and egg laying are discussed and illustrated. The program makes note of the difficulties associated with keeping pet turtles. 74 slides. Approx. 10 minutes.

The Wet World

- Life on earth depends on sunlight, air, water and soil. The program discusses the components and interrelationships of the food chain in a marsh setting. 50 slides. Approx. 10 minutes.

The White-Tailed Deer

- This program discusses and illustrates the different meanings that these deer have to naturalists, farmers, hunters, wildlife managers and the casual Sunday driver. Illustrates life history, physical and behavioural characteristics, habitat requirements and issues and concerns about the White-Tailed Deer in Manitoba. 86 slides. Approx. 12 minutes.

DISPLAYS

Garrison Display

- This table-top display explains the facts about North Dakota's Garrison Diversion project and its possible impact on Manitoba. Although the display is intended for a school audience, it is suitable for public meetings as well. Informational pamphlets are included for distribution. The display stands 36" tall and each of the four joining panels is 28" wide. The size makes it impossible to ship by mail, so the display will be shipped to out-of-town bookings by bus wherever possible.

D) SURVEYS & MAPPING BRANCH

Maps are available from:

Department of Natural Resources
Map Sales Office
1007 Century Street
Winnipeg, Manitoba
R3H 0W4

Ph. 944-6666 or 944-6667

Unless otherwise requested, maps will be sent folded. New maps will be printed from time to time - please inquire.

Make all cheques payable to the Minister of Finance.

All NTS Sheets	$3.00
1:1,000,000	$2.20
1:500,000	$2.40
Color Relief	$2.20
City of Winnipeg	$1.75
CLI Maps	$2.50
Crown Land	$2.90
Geographical Names Book	$8.00
Manitoba (letterhead)	$ .25
Aeronautical Sectionals	$3.00
WAC and VFR	$3.50
Air Facilities	$2.20
Supplement	$1.75
Angling Map	$2.20

Hydrographic Charts		$6.00
Chart 1		$1.00
Catalogues		Free
Chart 6242		$7.50
Lake Depth	(photo)	$ .60
	(photocopied)	$ .25
Map Scales	(large)	$1.00
	(small)	$ .50
MCR 3009 Fed. Electoral		$2.20
Ind. Fed. Elec.		$1.00
MCR 10 Canada	(large)	$3.00
MCR 15 Canada	(small)	$2.50
MCR 27 Prairie Provinces		$3.00
Biophysicals		$3.00
Canoe Routes		$1.10

The Manitoba Air Photo Library

The Manitoba Air Photo Library provides aerial photo coverage to general public and other government departments. Used extensively by the technocrat, aerial photography is required for interpretation of ground data; however, it can also be of assistance to the general public where a map does not provide enough detail.

The library has on file all air photo coverage for the province of Manitoba from 1923 to the present. The scales of these photos vary from 5,000 to 120,000.

Copies of aerial photos are available within one day of placing an order, or prints from Ottawa can be ordered through the library. Persons wishing to view or order photography may do so in person at the:

Air Photo Library
1007 Century Street
Winnipeg, Manitoba

Additional information is available by phoning 944-6666 or 944-6667.

The Map Sales Office

The Map Sales Office acts as a distribution centre for maps of Manitoba and Northwestern Ontario. In addition, map related information is provided and referrals to other government departments or map outlets are made. Referrals are often made to the air photo library as aerial photography is more suitable than a map, when a lot of detail is required.

Within the area indicated on the index on the following page, various types of maps are available for purchase.

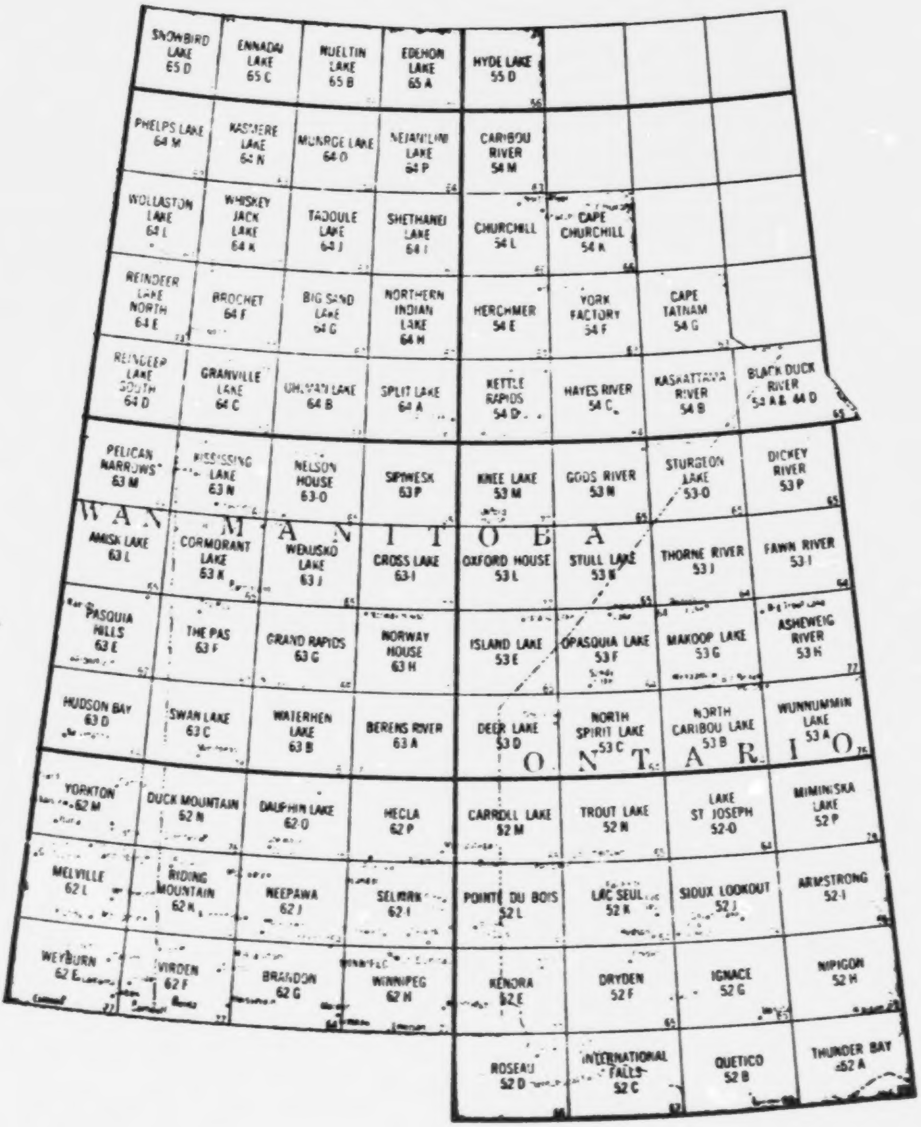
Topographic maps, from the National Topographic Series, provide information on natural physical features. They show land contours, rivers, lakes, swamp, wooded areas, railways, access roads, cities, towns and villages, and are available in various scales.

Information on major lakes and rivers are recorded on Hydrographic Charts. The charts include depths, major water routes, buoys, etc., and act as navigational aids for small crafts.

The Surveys and Mapping Branch prepare Special Interest Maps, which are available from the map office. These include Manitoba Base Maps, Southern Manitoba Road Maps, Manitoba Color Relief, Manitoba Flight Information, Landsat Mosaics, Municipal and LGD, Land Titles Districts, Electoral, School Divisions, Census Divisions, Crown Land, Angling Map, Canoe Route Maps, Lake Depth Maps and Soil Capability Maps.

Air Navigation Maps in the Aeronautical and World Aeronautical series are available, as well as miscellaneous mapping such as Community Base mapping, Township Diagrams and Survey Plans.

The Map Sales Office is open from 8:30 - 4:30 Monday to Friday.


SNOWBIRD LAKE 65 D
ENNADAI LAKE 65 C
NUELTIN LAKE 65 B
EDEHON LAKE 65 A
HYDE LAKE 55 D
PHELPS LAKE 64 M
KASMERE LAKE 64 N
MUNROE LAKE 64 O
NEJANILINI LAKE 64 P
CARIBOU RIVER 54 M
WOLLASTON LAKE 64 L
WHISKEY JACK LAKE 64 K
TADOULE LAKE 64 J
SHETHANEI LAKE 64 I
CHURCHILL 54 L
CAPE CHURCHILL 54 K
REINDEER LAKE NORTH 64 E
BROCHET 64 F
BIG SAND LAKE 64 G
NORTHERN INDIAN LAKE 64 H
HERCHMER 54 E
YORK FACTORY 54 F
CAPE TATNAM 54 G
REINDEER LAKE SOUTH 64 D
GRANVILLE LAKE 64 C
UHLMAN LAKE 64 B
SPLIT LAKE 64 A
KETTLE RAPIDS 54 D
HAYES RIVER 54 C
KASKATTAMA RIVER 54 B
BLACK DUCK RIVER 54 A & 44 D
PELICAN NARROWS 63 M
KISSISSING LAKE 63 N
NELSON HOUSE 63-O
SIPIWESK 63 P
KNEE LAKE 53 M
GODS RIVER 53 N
STURGEON LAKE 53-O
DICKEY RIVER 53 P
MANITOBA
AMISK LAKE 63 L
CORMORANT LAKE 63 K
WEKUSKO LAKE 63 J
CROSS LAKE 63-I
OXFORD HOUSE 53 L
STULL LAKE 53 K
THORNE RIVER 53 J
FAWN RIVER 53-I
PASQUIA HILLS 63 E
THE PAS 63 F
GRAND RAPIDS 63 G
NORWAY HOUSE 63 H
ISLAND LAKE 53 E
OPASQUIA LAKE 53 F
MAKOOP LAKE 53 G
ASHEWEIG RIVER 53 H
HUDSON BAY 63 D
SWAN LAKE 63 C
WATERHEN LAKE 63 B
BERENS RIVER 63 A
DEER LAKE 53 D
NORTH SPIRIT LAKE 53 C
NORTH CARIBOU LAKE 53 B
WUNNUMMIN LAKE 53 A
ONTARIO
YORKTON 62 M
DUCK MOUNTAIN 62 N
DAUPHIN LAKE 62-O
HECLA 62 P
CARROLL LAKE 52 M
TROUT LAKE 52 N
LAKE ST JOSEPH 52-O
MIMINISKA LAKE 52 P
MELVILLE 62 L
RIDING MOUNTAIN 62 K
NEEPAWA 62 J
SELKIRK 62-I
POINTE DU BOIS 52 L
LAC SEUL 52 K
SIOUX LOOKOUT 52 J
ARMSTRONG 52-I
WEYBURN 62 E
VIRDEN 62 F
BRANDON 62 G
WINNIPEG 62 H
KENORA 52 E
DRYDEN 52 F
IGNACE 52 G
NIPIGON 52 H
ROSEAU 52 D
INTERNATIONAL FALLS 52 C
QUETICO 52 B
THUNDER BAY 52 A

B. FEDERAL DEPARTMENTS

1. CANADIAN FORESTRY SERVICE

Pamphlets are available free of charge from:

Information Centre
Northern Forest Research Centre
5320 - 122 Street
Edmonton, Alberta
T6H 3S5

Ph. (403) 435-7210

Forestry: Facing the Future

Forests for People

Canada's Forests 1982

CFS Fact Sheet: Forests and Water

CFS Fact Sheet: Fire in the Forest

CFS Fact Sheet: Forestry and the Environment

CFS Fact Sheet: From Trees to Paper

CFS Fact Sheet: Maple Syrup Production

CFS Fact Sheet: Planting Shade Trees

CFS Fact Sheet: Forest Tent Caterpillar

CFS Fact Sheet: Spruce Budworm

CFS Fact Sheet: What Tree Rings Tell Us

CFS Fact Sheet: Lumber and Plywood from Softwoods

CFS Fact Sheet: Biological Control of Insect Pests

Conservation Activities

Forestry Lessons

Pest Leaflets - a series of 25 outlining control measures for the most common pests of urban trees and shrubs

Tree Brochures - white spruce, black spruce, douglas-fir, balsam fir, white elm, tamarack

Ecotours - Calgary - Regina
Calgary - Golden
Regina - Winnipeg

2. CANADIAN WILDLIFE SERVICE

HINTERLAND WHO'S WHO DISTRIBUTION POLICY

ORDERING FREE PUBLICATIONS:

Individuals may order up to ten different publications, but only one copy of each. Please refer to the complete title and catalogue number when ordering. Schools, libraries, natural history clubs, sportsmen's clubs and other organizations may order a complete set of pamphlets provided these requests are written on the letterhead of the organization. A sample set may be obtained free of charge for display at exhibitions. Address orders and inquiries to:

Distribution Section
Canadian Wildlife Service
Environment Canada
Ottawa, Ontario
K1A 0E7

ORDERING BULK QUANTITIES:

Bulk quantities of pamphlets cannot be obtained free of charge. Pamphlets are sold at 10 cents each. Please refer to the complete title, catalogue number and modulus number when ordering. Cheques or postal money orders must be made payable to the Receiver General for Canada and forwarded with the order to:

The Canadian Government Publishing Centre
Supply and Services Canada
Ottawa, Ontario
K1A 0S9

HINTERLAND WHO'S WHO

BIRDS (Complete serie - CW69-4E-11132975)

Waterfowl	*Cat. No.*	*Modulus No.*
Black Duck	(CW69-4-17)	(11131252)
Bufflehead	(CW69-4-40)	(11131896)
Canvasback	(CW69-4-48)	(11132139)
Mallard Duck	(CW69-4-14)	(11131163)
Redhead	(CW69-4-41)	(11131923)
Wood Duck	(CW69-4-50)	(11132191)
Canada Goose	(CW69-4-23)	(11131404)
Greater Snow Goose	(CW69-4-37)	(11131822)
Trumpeter Swan	(CW69-4-53)	(11132280)
Whistling Swan	(CW69-4-65)	(11132646)

Other Land Birds	*Cat. No.*	*Modulus No.*
Black-capped Chickadee	(CW69-4-25)	(11131466)
Evening Grosbeak	(CW69-4-28)	(11131555)
Ruby-throated Hummingbird	(CW69-4-43)	(11131985)
Blue Jay	(CW69-4-22)	(11131377)
Gray Jay	(CW69-4-29)	(11131581)
Killdeer	(CW69-4-49)	(11132165)
Red-breasted Nuthatch	(CW69-4-34)	(11131733)
American Robin	(CW69-4-35)	(11131769)
Mountain Bluebird	(CW69-4-62)	(11132557)
Whippoorwill	(CW69-4-42)	(11131959)
American Woodcock	(CW69-4-54)	(11132317)
Downy Woodpecker	(CW69-4-27)	(11131529)

HINTERLAND WHO'S WHO

BIRDS

Birds of Prey	*Cat. No.*	*Modulus No.*
Peregrine Falcon	(CW69-4-32)	(11131670)
Hawk	(CW69-4-30)	(11131618)
Great Horned Owl	(CW69-4-56)	(11132379)
Snowy Owl	(CW69-4-46)	(11132076)

Hen-like Birds		
Ruffed Grouse	(CW69-4-15)	(11131199)
Ptarmigans	(CW69-4-39)	(11131884)
Ring-necked Pheasant	(CW69-4-33)	(11131707)

Other Water Birds	*Cat. No.*	*Modulus No.*
Gannet	(CW69-4-3)	(11131668)
Loon	(CW69-4-4)	(11131694)
Herring Gull	(CW69-4-10)	(11131846)
Ring Billed Gull	(CW69-4-63)	(11132583)
Whooping Crane	(CW69-4-9)	(11131810)
Great Blue Heron	(CW69-4-61)	(11132521)

HINTERLAND WHO'S WHO

MAMMALS

Ungulates	*Cat. No.*	*Modulus No.*
American Bison	(CW69-4-45)	(11132040)
Caribou	(CW69-4-24)	(11131430)
White-tailed Deer	(CW69-4-7)	(11131757)
Moose	(CW69-4-1)	(11131606)
Mountain Sheep	(CW69-4-16)	(11131226)
Muskox	(CW69-4-51)	(11132228)

Carnivores		
Black Bear	(CW69-4-8)	(11131783)
Grizzly Bear	(CW69-4-38)	(11131858)
Polar Bear	(CW69-4-18)	(11131288)
Cougar	(CW69-4-26)	(11131492)
Coyote	(CW69-4-57)	(11132406)
Arctic Fox	(CW69-4-58)	(11132432)
Red Fox	(CW69-4-5)	(11131721)
Lynx	(CW69-4-59)	(11132468)
Marten	(CW69-4-55)	(11132343)
Skunk	(CW69-4-36)	(11131795)
Wolf	(CW69-4-19)	(11131315)

Rodents	*Cat. No.*	*Modulus No.*
Beaver	(CW69-4-2)	(11131632)
Chipmunk	(CW69-4-13)	(11131137)
Lemming	(CW69-4-31)	(11131644)
Muskrat	(CW69-4-52)	(11132254)
Porcupine	(CW69-4-60)	(11132494)
Racoon	(CW69-4-47)	(11132103)
Woodchuck	(CW69-4-20)	(11131341)
Richardson's Ground Squirrel	(CW69-4-64)	(11132610)

Other Mammals		
Bat	(CW69-4-12)	(11137872)
Snowshoe Hare	(CW69-4-44)	(11132014)

ALSO AVAILABLE FROM THE CANADIAN WILDLIFE SERVICE:

Bird Banding in Canada

Bird Feeders

Fur Trade

Focus on the Canadian Wildlife Service

Focus on Wildlife Biology as a Career

Migratory Birds Act and Regulations

Nest Boxes for Birds

A Place for Wildlife

Where We Live - Northern Hardwoods Region
- Wetlands

3. DEPARTMENT OF FISHERIES & OCEANS

Pamphlets and films (loanable) are available free of charge from:

Department of Fisheries and Oceans
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Ph. 949-5000

a) Pamphlets

- Canada's Department of Fisheries and Oceans
- The Freshwater Institute
- Experimental Lakes Area
- Acid Rain
- Trout Farming in Canada's Prairie Lakes
- Rockwood Experimental Fish Hatchery
- Careers in Canada's Department of Fisheries and Oceans
- Underwater World Fact Sheets
- Fish Recipes

b) Films (loaned out on a two-week basis)

- Acid from Heaven
- Freshwater World
- Northern Fisherman
- Atlantic Salmon
- Great Bear Lake
- The Sea
- Tomorrow is Too Late
- Oceans of Science
- Salmon's Struggle for Survival
- North Pacific
- The Oyster Man
- Fisheries of the Great Slave
- The River Must Live
- Plea for the Wanderer

4. NATIONAL FILM BOARD

Films are available on loan from:

National Film Board
245 Main Street
Winnipeg, Manitoba
R3C 1A7

Ph. 949-4131

YOUR FILM LIBRARY

We have films on a wide range of subjects, including wildlife, travel, social issues, health, the arts, animation and others. There is a selection of CBC titles, and of films in a variety of languages.

Free catalogues are available on request.

Films may be previewed in the library, and our cinema is available for group bookings.

Films and videocassettes can also be purchased.

1. The Library

The library facilities consist of:

a) Self-serve: This section permits easy access to many popular titles. You may immediately check out any films with the use of your film library card.

b) Pre-book: Should distance prevent you from using the self-serve facilities, or if you want to assure access to certain films on specified dates, you may reserve your films through the pre-book library.

2. How to Borrow

a) Get a card: Just complete an application form and we'll issue you a library card on which will appear your name, address and client number.

b) Consult the catalogue: It will give you ideas for film programs. The librarian needs to know the titles and title codes of the films you want.

c) Order the film: For the pre-book library, we need a minimum advance notice of 2 working days. Maximum notice possible is one month. Films may be borrowed for a maximum of 4 working days.

If you live out of town, requests should be received at least 2 weeks but no more than 3 months in advance.

When ordering, give:

i) title and code number
ii) your card number
iii) the playdate you desire

d) Remember these small but important details:

- Bookings may be submitted by mail, phone or at the counter.

- For out-of-town customers, we pay the cost of mailing films to you; please return via prepaid parcel post for arrival by due-back date.

- Films must be picked up on the specified shipping date. If not, your order will be cancelled.

- All films must be back in the library on or before the due-back date. There is nothing more disappointing for all our film users than having to cancel a screening because of a late film return! All late returns are subject to a fine of $1.00 per film per day late. Please note that customers are responsible for loss or damage of films.

3. General Information

The library is open, Monday to Friday, 8:00 A.M. - 5:00 P.M. (Summer Hours, 8:00 A.M. - 4:00 P.M.). Telephone reservations will be accepted between the hours of 10:00 A.M. and 4:00 P.M.

There is a night deposit at the rear (east) of the building for returns after hours.

New titles are continually being added to the following list of films. Please consult your most recent National Film Board catalogue for a complete listing.

Feature Films

One Man (87:27 min.; color)

A red hot story of environmental pollution sends ace-reporter Jason Brody into battle against big business.

Dreamspeaker (76:02 min.; color)

Story of an emotionally disturbed boy who retreats to the forests of Vancouver Island to live with an Indian shaman.

Canada - The Land: Earth Sciences and Physical Geography

Gulfstream (27:52 min.; color)

A clear explanation of the origin, nature and importance of the Gulf Stream, through a sailing voyage from the equator to Nova Scotia. (support material available)

64,000,000 Years Ago (11:25 min.; color)

This short animated film for children looks at the last of the great dinosaurs to stalk the central plains of North America.

Extinction of the Dinosaurs (3:25 min.; color)

The theory proposed is that a sudden change in climate caused by a stellar explosion resulted in the extinction of the dinosaurs.

Canada - The Land and Environment - Conservation - Pollution

Acid from Heaven (30:47 min.; color)

A case study of the direct effect of acid rain on one individual.

Acid Rain: Requiem or Recovery (26:50 min.; color)

These films examine the what, where and hows of acid rain and its effect on the environment.

If You Love This Planet (25:50 min.; color)

Through film footage and a moving lecture by Dr. Helen Caldicott, the effects of a nuclear war are presented. (1982 Oscar Winner)

Blowhard (9:23 min.; color)

An animated parable that deals with our dwindling energy supplies and solutions for alternatives.

Forest in Crisis (21:20 min.)

The film documents the use and misuse of forest resources in Northern Ontario and the efforts of government and industry to find solutions.

The Garbage Ouroboros (27:55 min.; color)

The film examines the ideas and machines for waste recycling and reprocessing.

23 Skidoo (8:15 min.; B & W)

A view of a city without life.

S.P.L.A.S.H. (12:32 min.; color)

An entertaining animation on army of raindrops travels down a river.

The Disappearing Land (56:45 min.; color)

A look at the crisis of disappearing farm lands brought about by the urban sprawl of our first developing cities is examined.

The Energy Carol (10:33 min.; color)

The film traces the history and future of energy use through the spirits of energy past, present and future.

Canada - Past and Present - History Films

Age of the Buffalo (14 min.; color)

A vivid recollection of the free west of the North American Indian and the vast herds of buffalo that once thundered across the Plains.

Canada Vignettes (Manitoba Themes)

Lady Francis Simpson (1 min.; color)

A one-minute animated Canada Vignette on the journey of Lady Francis Simpson from England to Lower Fort Garry (with her piano).

Fort Prince of Wales (1 min.; color)

A one-minute Canada Vignette giving a humorous animated version of the history of Fort Prince of Wales from its construction to its capture by the French.

Spence's Republic (1 min.; color)

A one-minute animated Canada Vignette on the formation and demise of the Republic of Manitoba.

Flin Flon (3 min.; color)

A Canada Vignette on the curious origin of the name of Flin Flon, Manitoba.

The New Mayor (38:17 min.; color)

The study of big city politics in Winnipeg and the function of the mayor in the city.

Valley in a River (28:05 min.; B & W)

The river is the Red and the valley is near Winnipeg, where rising waters have more than once broken through embankments to flood low lying communities.

Last Voyage of Henry Hudson (27:51 min.; B & W)

Hudson looking for an open water route to the Orient, but discovered instead an inland sea.

David Thompson - The Great Mapmaker (28 min.; B & W)

During his lifetime, he mapped a million and a half square miles of uncharted country - the greatest achievement in land geography of all time.

Alexander Mackenzie - The Lord of the North (27:55 min.; color)

Filmed on the great Mackenzie River, this picture recreates the amazing voyage of the man who gave his name to it.

Canada - Past and Present - The Eskimo

Legends and Life of the Inuit (57:46 min.; color)

This animated film looks at life today in an Inuit community and presents five legends.

Spirit in a Landscape (56:50 min.; color)

A look at the Inuit People of Canada's Arctic through their distinctive artifacts and art, and through the special environment in which they live.

Northern Games (25:40 min.; color)

A film about the traditional games of the Inuit.

Whale Hunting (9:35 min.; color)

An interesting and informative journey with six Inuit hunters in their hunt of the Beluga whale near Frobisher Bay, N.W.T.

Canada - Past and Present - The Indian

Standing Alone (57:50 min.; color)

Sequel to Circle of the Sun, the film returns 20 years later.

Nonoonse Anishinabe Ischichekewin Ka Kanawentank (10:17 min.; color)

Filmed on Lake Manitoba, near the Ebb 'n Flow Reserve. Nonoonse is both a clear description of sugar making and a quiet statement on the importance of tradition.

Cree Way (26:18 min.; color)

A look at a curriculum development project using Cree culture as the basis for instruction in this innovative approach to education.

Wandering Spirit Survival School (27:32 min.; color)

Indian legend, traditions, languages and crafts balance the program of academic subjects at this school.

Science - Natural Science and Wildlife

Energy Management for the Future (24:13 min.; color)

An analysis of the problems and solutions for Energy Management in food, leisure, transportation, government and the home.

The Energy Carol (10:33 min.; color)

A retelling of the "Christmas Carol" of Dickens in the form of a parable on energy conservation.

Greenpeace - Voyage to Save the Whales (51:03 min.; color)

The work of the Greenpeace Foundation is exemplified through a six-month period at sea, tracking and harassing the elusive Soviet whaling fleet.

Great White Bird (51:30 min.; color)

An intimate story about a 40-year struggle to save North America's beautiful, tallest and most mysterious bird - the Whooping Crane. In 1937, there were only 18; today there are about 60 - an increase of little more than one bird per year.

Grey Owl (56:50 min.; color)

This film depicts every major significant event in the turbulent 50-year life of Grey Owl. It also features rarely seen film footage directed by Grey Owl himself.

Insulation Story (23:53 min.; color)

A descriptive film on home insulation and conservation in space heating.

Ice Lovers (27:40 min.; color)

The life history of the seal which is the object of the great spring hunt. Remarkable photography of the seal in its natural habitat.

The Man Who Digs for Fish (13:22 min.; color)

Without the intervention of 82-year-old Frank Jenkinson, newly hatched salmon would die before reaching maturity.

New Channels for Sockeye (20:15 min.; color)

A film which shows the new Fisheries Service Sockeye Salmon spawning beds which have been constructed at Babine Lake, B.C.

North Pacific (26:43 min.; color)

This film shows extensive studies of the ocean to determine how temperature, winds, currents and plankton affect the sea harvest.

Point Pelee (27:43 min.; color)

This film visits Point Pelee, a tiny peninsula jutting into Lake Erie which contains a freshwater marsh teeming with wildlife.

Prairie Slough (15 min.; color)

The Prairie Slough is portrayed as a vital feeding and resting area for thousands of migratory waterfowl, and an important habitat for a number of summer residents.

This is an Emergency (28:50 min.; color)

A half hour television style film using documentary footage, animation and theatrical scenes. The film makes a case for energy conservation in all aspects of industrial production, distribution and consumers goods hosted by well-known scientist, Dr. David Suzuki.

Tomorrow's Salmon (24:45 min.; color)

An exposition of the need for, and the government's plans, increasing the salmon population of the West Coast.

Tomorrow's Salmon: Our Pacific Heritage (27:13 min.; color)

This is the second version of film entitled Tomorrow's Salmon, which includes the recreation salmon fishery in B.C.

Tomorrow is Too Late (28:30 min.; color)

A review of some contemporary Canadian Fisheries, their support by Government Agencies and their importance for tomorrow's world.

Waterfowl - A Resource in Danger (17:17 min.; color)

This film shows the immense flocks of birds, their habits, and their dependence on the wetlands of the prairies.

What on Earth are We Doing? (11:43 min.; color)

This award-winning animated film shows a Martian's view of an earth populated by cars; and their two-legged parasites.

Canada - Industry: Agriculture

Top Few Inches (18:53 min.; color)

The film explores soil and crop management techniques - such as zero or minimum tillage, irrigation and discontinuous cropping - that are now being used to save our ailing soil.

Everyone's Business (20:48 min.; color)

A film about a greenhouse cooperative owned and operated by disabled persons.

We're Here to Stay (27:20 min.; color)

This is an engaging look at a novel approach to big-scale farming.

Harvesting (9:48 min.; color)

A visual poem about the wheat harvest on the vast Canadian prairies. What is seen on the screen suggests a strange but magnificent military maneuver as a phalanx of the giant machines lumbers across the golden acres.

Canada - Industry: Fishing - Forestry - Mining

Jacks or Better (20 min.; color)

More than a portrait, Jacks or Better is a unique encounter, at once lyrical and strong, harsh and yet realistically sympathetic towards the individual.

Creative Arts: Painting - Sculpture - Architecture - Crafts

Skiff of Renald and Thomas (57:46 min.; color)

The film does not merely record a building tradition, it reveals the character of the craftsmen who are influenced by a pre-industrial way of life underscored by spontaneity and wit.

5. PARKS CANADA

Publications are available from:

Parks Canada
Prairie Regional Office
4th Floor
391 York Avenue
Winnipeg, Manitoba
R3C 4B7

Ph. 949-2290

National Parks

Riding Mountain National Park

- Main Brochure
- Bison Brochure
- Wasagaming Campground
- Lake Katherine Campground
- Wasagaming Service Centre Map
- Brûlé Trail Guide
- Arrowhead Trail Guide
- Cross-country and Snowshoeing
- Snowmobile Regulations
- R.M.N.P. Trail Guide

Prince Albert National Park

- Main Brochure
- Interpretive Program
- Boundary Bog Trail Guide
- Winter Recreation Brochure

Kluane National Park

- Main Brochure
- Interpretive Program
- Winter Travel Guide
- Kathleen Lake Campground
- Hiking in Kluane
- Mountaineering Application

Wood Buffalo National Park

- Main Brochure
- Interpretive Program
- Mammals Brochure
- Reptiles and Amphibians
- Birds Checklist

Grasslands National Park

Main Brochure

Auyuittuq National Park Reserve

Main Brochure
Backpacking in Pangnirtung Pass

Nahanni National Park

Main Brochure
Guide to South Nahanni and Flat Rivers

National Historic Parks and Sites

Lower Fort Garry

History
Area Guide
York Boats and Buffalo Robes

Manitoba North

Area Guide
History of York Factory
History of Fort Prince of Wales

Motherwell Homestead

History

Battleford

History
What to Look for

Fort Walsh

History
Area Guide

Cypress Hills

History

Fort Espérance

History

Riel House

History

Klondike National Historic Sites

Robert W. Service
The Gold Rush Trail
Dawson City Buildings/Post Office
Gold Mining and the Creeks
Dawson City: Heart of the Klondike (contains information sheets on various historic sites)

Yukon National Historic Sites

Chilkoot Trail
S. S. Klondike

General

Beating the Bugs in Canada's National Park
You are in Bear Country
Angling Regulations
The Buildings of Canada
The Evaluation of Historic Buildings
The World Heritage Convention
Guide to the National Historic Parks and Sites of Canada
Guide to the National Parks in Canada (includes information on camping)
Hypothermia

Prairie Region: Manitoba, Saskatchewan, Yukon and Northwest Territories

N.B. - All these brochures are also available in French.

"The Land That Never Melts" (Auyuittuq National Park Reserve): This book is a sale item and is available through Government of Canada Publishing Centre, Hull, Quebec, K1A 0S9 ($5.95).

C. PRIVATE ORGANIZATIONS

1. DUCKS UNLIMITED CANADA

Films (loanable) and pamphlets are available from:

Ducks Unlimited Canada
1190 Waverley Street
Winnipeg, Manitoba
R3T 2E2

Ph. 477-1760

Ducks Unlimited Canada is the Canadian arm of North America's largest private, non-profit waterfowl conservation organization. The company is dedicated to the perpetuation and increase of the waterfowl resource through restoration, preservation and creation of prime waterfowl breeding habitat in North America.

Development of this habitat on a multi-use concept basis benefits wildlife and the general environment and provides water for agriculture, domestic and recreational use.

a) Films

To Order:

i) Choose the required films from this list, and make your reservation for a specific date at least four weeks prior to that date.

ii) List several choices in case the first choice is not available.

iii) Films will be sent to you by parcel post, to arrive several days before the scheduled show date; or, where requested, films will be sent collect via express.

iv) All films should be returned to Ducks Unlimited Canada immediately after showing, prepaid by the same method they were sent.

All films are 16 mm, color, optical sound.

Watching Wild Wings (29 minutes)

This colorful film helps viewers identify waterfowl in the field. It features authentic footage of ducks and geese in the field as you would see them in varying light and different positions, both on and off the water. The film's unique approach combines field-action with stop-action photography and paintings, and explains the need to put several general clues together to make specific identifications.

Call of the Wildfowl (28 minutes)

Produced by the CBC for the popular *This Land* series, "Call of the Wildfowl" is the story of ducks and Ducks Unlimited. Focusing on the dry area of southern Alberta, the film shows problems facing much of Canada's waterfowl population and how Ducks Unlimited helps overcome adverse conditions. Thrilling scenes of waterfowl on the wing and vivid illustrations of conservation in action make this a truly enjoyable film.

The Wetlanders (25 minutes)

"The Wetlanders" tells the who, what, when, where, why and how of Ducks Unlimited Canada. The camera follows DU personnel into the field, giving step-by-step explanations of the problems and work involved in locating, building and managing a DU waterfowl project. Highlighted is the need for landowner cooperation and the benefits a project brings local farmers and ranchers, wildlife and the environment. Contrasting survey crews working alongside the roar of giant earthmovers with the quiet of a lone DU fieldman at work in a morning marsh, this film appeals to all audiences.

Prairie Giant (23 minutes)

This is the story of the giant Canada goose (*Branta canadensis maxima*), largest of all wild geese--thought to be extinct in the 1930's. Filmed with skill and artistry against a setting of the Canadian prairies, it provides intimate glimpses as the giant Canada's arrive from the south, begin nesting before the snow has gone and gather in large groups before leaving for their winter quarters. There is an enchanting summer interlude with sequences of prairie birds and small animals to delight the audience.

Where There's Water (27 1/2 minutes)

Move with the camera from B.C.'s mountains across the prairie pothole region into the salt marshes of the Maritimes. This informative documentary looks at Ducks Unlimited projects across Canada, and outlines the benefits they have brought local landowners while aiding waterfowl. Filmed on farms and ranches across Canada, eleven sequences vividly depict these DU benefits--flood protection, water sources for livestock and pasture and water table improvement programs. This informative and educational film appeals to a wide range of audiences.

So Little Time (28 1/2 minutes)

Produced by the U.S. Department of the Interior, Fish and Wildlife Branch, this film deals with the plight of waterfowl and other wildlife under the influence of settlement and industrialization. Excellent color photography depicts Nature's "whistling wings", with exciting shots of Canada geese, Canvasback ducks, Whistling Swans and many other waterfowl species. An excellent conservation message, this film is enhanced by many beautiful wildlife sequences.

Vital Heritage--Swamps, Bogs and Marshes (29 minutes)

Growing demand for food has created a serious decline in our natural heritage, as swamps, bogs and marshes have been reduced by a century of drainage to make way for farmland. This film emphasizes the positive value of our wetlands, and colorfully portrays the close relationship between them and the many species of wildlife that depend on wetlands for habitat.

Decisions (18 minutes)

A legendary motion picture celebrity, the late John Wayne, outlines a brief history of Ducks Unlimited in this popular film. He then explains how and why we implement our programs, and describes the international cooperation between Canadians and Americans to preserve waterfowl. The film contains excellent historical footage and outstanding wildlife photography. It is suitable for audiences of all ages.

Wood Ducks' World (31 minutes)

Superb color photography makes this award-winning film about North America's most beautiful duck a delight to viewers of all ages. The camera follows a family of Wood Ducks from spring arrival through to the fall migration. The film provides an excellent lesson in conservation for classroom and other learning groups.

Black Duck (27 minutes)

The story of the Black Duck, hardy and resourceful eastern counterpart of the Mallard, is vividly portrayed. Winner of many awards, the film has been widely acclaimed as one of the finest nature films ever produced. Renowned Canadian photo-naturalist William Carrick photographed the complete life-cycle of the handsome Black Duck from nesting to migration.

Canvasback (27 minutes)

The Canvasback, king of the divers, is the star of this first-rate life history. Both hunters and conservationists will enjoy the superb camera studies of this fascinating North American duck. The value of Ducks Unlimited projects on the prairie breeding grounds of this species receives particular attention. Spectacular hunting scenes round out this impressive film, an Outdoor Writers of America award winner.

Return to Duck Country (27 minutes)

Both ducks and geese are featured in this film about spring migration to Canadian nesting grounds. Sequences of early arrival, courting parties, selection of territories, nesting, brood-raising and, finally, the southward exodus are skillfully blended to present a vivid picture of waterfowl activity. The finale features hunting scenes filmed in the various flyways.

Ancient Exodus (28 minutes)

Monitoring the migration of waterfowl from Mexico's wintering marshes through stop-over areas in the United States and finally to Canada's breeding grounds, the film highlights the importance of good waterfowl habitat. Richard Boone's narration is coupled with spectacular footage by filmmaker Dick Borden. The film skillfully depicts Ducks Unlimited efforts to provide waterfowl with adequate wintering and nesting habitat throughout North America.

A Question of Hunting (30 minutes)

This film, produced by Remington Arms Company and brought to you by Remington Arms and Ducks Unlimited, fully and fairly examines the positions of those who do and those who don't hunt. It provides a clear, unemotional insight into the philosophies of hunters and non-hunters alike. For classroom, fraternal, hunters' safety and other youth and adult gatherings where those present are interested in the outdoors, hunting, conservation or ecology, this film is a must.

Ours to Bequeath (27 minutes)

Must viewing for dedicated conservationists, this Ducks Unlimited film uses extraordinary wildlife footage to document the historic circumstances and present conditions affecting North America's waterfowl resource. Featured is the Ducks Unlimited Canada habitat restoration work in western Canada, particularly the 500,000-acre Cumberland Marsh project in east-central Saskatchewan.

Wings to the Future (30 minutes)

This CBC film, produced for the *This Land* series, explores the problems facing waterfowl conservationists today as technology and development disrupt nature's balances in North America's marshes and wetlands. The problems are defined by two life-long naturalists, Angus Shortt, an acclaimed wildlife artist, and Gerry Malaher, retired director of wildlife for the Manitoba Government and Ducks Unlimited Canada director, as they take viewers through marshes and into Shortt's studio for personal interpretations of what conservation is all about.

Sprig Tail (25 minutes)

"Sprig-Tail"..."Pinnie"..."Greyhound of the Sky"...by any nickname you want to give him, the Pintail still ranks high in any popularity pool of North American waterfowl. Portrayed in this unusual movie is the entire life cycle of the Pintail Duck highlighted by superbly photographed close-ups, excellent flight sequences and heart-warming brood scenes, expertly woven into a memorable species portrait.

b) Pamphlets

The following pamphlets are free from Ducks Unlimited Canada:

Ducks Unlimited (waterfowl identification brochure)

Health of the Land - 8 in a series:

- Burning
- Water Control
- Zero-Tillage
- Salinity
- Depredation
- Grazing Systems
- Stubble Mulching
- Winter Wheat

The Ducks Unlimited Film Library

Do You Know Your Ducks?

Lowdown on Drawdown

2. MANITOBA FORESTRY ASSOCIATION

Pamphlets are available from:

Manitoba Forestry Association
900 Corydon Avenue
Winnipeg, Manitoba
R3M 0V4

Ph. 453-3182

About Pulp and Paper

Forestry Lessons (The Forestry Branch, Department of Fisheries and Forestry, 1971)

From Watershed to Watermark

New Sounds in the Forest (Abitibi Paper Co., Toronto)

The Forest Book (Canadian Pulp and Paper Association)

The Forest Harvest (Canadian Pulp and Paper Association, SunLife Building, Montreal)

Some Edible and Poisonous Berries (75¢)
A Taste of Wild Fruits ($1.25)
} $1.75 for the set

Wildfire

N.B. - The Manitoba Forestry Association also produces "conservation kits", in partnership with the Bank of Montreal. They will be printing 5 kits during the school year. The current series will be distributed free of charge, and back issues are still available for 60¢ each. A list of contents of all back issues will be provided on request.

3. WINNIPEG REAL ESTATE BOARD

Available for loan from:

Winnipeg Real Estate Board
1240 Portage Avenue
Winnipeg, Manitoba
R3G 0T6

Ph. 786-8854 (library)

Assiniboine Forest (16 mm, color, optical, sound, 17 min.)

A centennial project. Filmed and produced by Robert R. Taylor. The film takes the viewer into the Assiniboine Forest Park throughout the four seasons of the year and explores the real values of a quiet place to walk within the city.